

GREAT LAKES TECHNOCRAT

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MARCH-APRIL, 1944

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★ Illustrating the Futility of Price System Methods of Operation; Interpreting the Trend of Events from the Social Aspect of Science; and Presenting the Specifications for Total Victory in America's War Against Fascism. ★

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I Am the Price System

by The Peripatetic Technocrat

Everybody knows the Price System. We all have dealings with it every day of our lives, from birth to death, and there is no escaping it this side of the River Styx.

It dictates nearly everything we do and controls almost everything we use except the air we breathe. The only reason it can't interfere there is because air is abundant. Here is its autobiography, written by the old miser itself.

Always With You

I HAVE existed since the beginning of social life yet few men recognize my fundamental characteristics. With the exception of some minor civilizations here and there, I am the only type of Social System that has ever existed. I was conceived in Human Toil and Scarcity and dedicated to Profit and Waste.

Before recorded history began I laid down the foundation of my system in the early tribal life of mankind. In the Ancient World they called me Chattel Slavery. The glory of Greece and the power of Rome was rooted firmly in Human Toil and Scarcity. During that long night of the human mind called the Dark Ages I was known as Fuedalism and Serfdom. In the modern world I am called Capitalism and they even entitle me Democracy in certain nations. Of all the names I have borne, the most misleading of all is that

given to me in Russia. There they call me Communism.

My name has been changed many times but essentially I have remained the same in all countries and times, except that my techniques have improved.

I am any social system whatsoever that effects its distribution of goods and services by means of any system or trade or commerce based on commodity valuation and employing any form of debt tokens or money.

For uncounted generations I have held sway in every Nation over the bodies and minds of men. Today I still exist all over the world in various stages of development, controlling the production and exchange of goods and services and all the means where-by men live.

I am the group expression of man's common urge to live and prosper at the expense of his environment, even

including the human components thereof. I am the resulting social system under whose regimentation every man is forced to give as little to society and his fellow man as he can get away with and take back as much as he can get.

I am the law of the jungle (eat or be eaten; kill or be killed), projected by mankind into institutional forms. I am the lowest common denominator of the ability, intelligence and necessities of mankind.

Mood of Confession

Early in social life I discovered that values could be determined by the force of human desire and that desire itself was determined by Scarcity. Value and Scarcity are therefore the cornerstones of my system.

I dressed them up so that men would not recognize them and baptized them Supply and Demand. In this guise they have befuddled men for ages. I had my economists tell them that Supply and Demand were natural laws and dictated Prices. This took the moral blame off my system and created the impression that nothing could be done about it.

Supply and Demand has been a useful myth to my System. Behind its cover I have always restricted the supply and made it a practice never to allow demand a free avenue of expression. Actually, there is no ceiling to supply except ability to pro-

duce and no limit to demand except ability to consume. But I cannot afford to let it become generally known that there are no natural laws except physical laws.

What was the first discovery that savage man made after he came together in social life? It was the elementary one, still valid, that other men placed a premium on scarce articles. This was the beginning of 'Chiselocracy.'

After this original discovery, I found it necessary to have more tools to work with. So I invented a promise and called it I Promise to Pay. This has turned out to be a neat device. I Promise to Pay can be neither seen, tasted, heard, felt or measured. I conjured it out of nothing and planted it in the minds of men. It took root and grew there with lush abundance.

I Promise to Pay was the first of a long list of operating devices I invented to facilitate the functioning of my system. They were all conjured out of nothing, with no basis in physical laws, yet they have become the Rules of the Game under which my System operates.

Next, so that men would not recognize the non-substantial nature of my Promise, I fashioned real tokens to represent it. These I called Money. Since Money is the token of a promise, it is a Debt Token. It has no ultimate reality in itself but only in

what it represents, which has no reality at all. Money is the promise of I Promise to Pay, when, as and if. *It is the Nothing you get for Something before you can get Anything.*

It seemed necessary to camouflage the real nature of Money, so I gave it another name called Medium of Exchange. This has a respectable sound and besides that it is actually how Money functions. It is not, however, a medium of distribution as some of my apologists assert. My system, *The Price System*, is not interested in distribution. It functions solely to exchange goods and services on the basis of scarcity determined values for a profit, and any distribution that results is an unavoidable by-product.

It became apparent at once that Money functioning as Medium of Exchange possessed certain characteristics useful to my system. It is negotiable, transferable, interest-bearing and can be saved. All this allows it to be traded in, stolen, given or gambled away; and since it is not a measure of anything real and fixed, it can be devalued, revalued and manipulated in countless ways.

This variability is necessary to the existence of my system. There must always be a free flow of Medium of Exchange, else the arteries of commerce will dry up. In addition there must also always be an ever present natural or artificially maintained

scarcity, else values will collapse and there will be no basis for exchange.

I Have Much To Confess

The way my System is organized it is compulsory for the individual to accumulate as many Debt Tokens as possible or else become a public charge. There are three major compulsions involved. First, because of the negotiability of Medium of Exchange, it constitutes a debt claim against my entire system, or society at large, as my Debt Merchants say. Second, also because of its negotiability, Money can be exchanged for any goods and services available. Third, again because of its negotiability, it constitutes a potential working force which can be hired out at stipulated rates of increment stated in terms of itself, thus increasing in size and power. When used this way, Medium of Exchange is called Capital. Once an accumulation of Debt Tokens has reached the proportions of Capital, it becomes compulsory to keep it out working all the time. Its tendency is to shrink back into the nothing from which it came. It must either increase or die.

If all the gold at Ft. Knox were dumped in the ocean would production stop? If not what is it based on, mercenary motives or social necessity?

The purpose involved in my entire system is for the individual to acquire as many Debt Tokens as possible and thus acquire a larger lien on I Promise to Pay. One must pile up debt claims against his fellowmen faster than they can pile them up against him. One must be either a horse or a rider, a chiseler or a sucker. It's dog eat dog all the way through.

During my checkered career I have performed such a complexity of manipulations with Medium of Exchange that dozens of schools of economists have arisen around my antics. Each one claims his theory of Money is correct. That is why economics can be correctly defined as the study of the pathology of debt.

Previous to the invention of Medium of Exchange, my activities had been restricted to direct barter and outright theft. I have never really outgrown these time-tested methods of lightening the suckers' burden. I merely graduated into improved techniques. In these more refined, modern days, whenever a situation calls for primitive methods, I always seize the opportunity to keep in practice. There's nothing like having something solid to fall back upon, should a rainy day come.

I Begin To Feel My Oats

The device of Capital allowed me to put into effect Delayed Exchanges. This opened up a whole new world

for expansion. I brought Capital and Delayed Exchanges together in natural wedlock and they begat Debt, Interest, Profits and Waste. These are the four horsemen of the apotheosis of my system.

Debt grew up like Milo, getting bigger all the time. His little brother Interest accompanied him wherever he went and always managed to pick up a little something on the way back. Every so often Profits got lost among Delayed Exchanges but Debt and Interest always went out and brought him back. Waste operated everywhere expediting the turnover of Delayed Exchanges and thus helped to maintain Scarcity.

'Waste not want not' has been translated by business to mean, 'Waste not profit not.' No business ever reaches great success without well planned waste. It's indispensable to the Price System.

Once when Delayed Exchanges seemed to be turning over too slowly, I brought Waste and Profits together in illicit relations. They begat Cheap Substitutes and Shoddy Goods. Delayed Exchanges turned over much faster after that; and Scarcity became more pronounced.

But, alas! Debt turned out to be allergic to a natural enemy called Paid in Full. Every once in a while this pest turned up and I was forced to create New Debt. After some ex-

perimentation, I devised an improved type of Debt called Long Term Debt. He resisted Paid in Full much better.

So with Scarcity, Values, I Promise To Pay, Medium of Exchange, Capital, Delayed Exchanges, Interest, Long Term Debt, Profits and Waste, I was almost all set for a successful and endless career.

Jungle Law Comes To The Jungle

There remained two things to do. I had to have an institutionalized social structure, superimposed upon these operating characteristics so as to consolidate my gains and maintain law and order. Also it was necessary to camouflage it so that men would take it for everything else but what it actually is. How successful this effort has been only a thermodynamic interpretation of history will reveal. Radicals, liberals, moralists and humanitarians have tinkered with my superimposed social structure for ages without altering or affecting its basic operating characteristics one bit.

To tell the truth, I did not design these social institutions as one job. They grew up naturally over a period of time as a normal outgrowth and corollary of the basic system of trade and commerce underneath.

In the very beginning of social life men had come together in groups for the purpose of multiplying their strength against the opposing forces of their environment and thus obtain-

ing individual security more effectively. This is the original reason for the formation of tribes and communities of people. One might put it this way: The paramount concern of the social state is supposed to be the general welfare of the human components involved.

There are two kinds of laws in society, physical laws and legislative laws. Physical laws can't be violated, they operate willy nilly. Legislative laws are passed because it is known in advance that they are being, or will be, violated. U. S. Supreme Court Justice Benjamin Cardozo once said: 'The purpose of the law is to preserve the ancestral smell.'

How I subverted social life from its paramount purpose is a story in itself. It runs concurrently with the gradual development of my operating tools for production and exchange of goods and services. For the superimposed social institutions are but a reflection of the fundamental means whereby men live.

Briefly, those who learned how to chisel according to the opportunities provided within the framework of my system became a ruling oligarchy. All men, of course, could not do so but only a minority. For, where there are exploiters, there must be some one and something for them to ex-

plot. In any event, while Natural Scarcity prevailed, which was the case for many thousands of years and is still so in most of the world, there never was enough to go around and provide every one with what he needed. So, if that part of the physical wealth which went to the ruling oligarchs had been divided among the great mass of people, it wouldn't have made much difference.

All throughout history my system has been operated and controlled by three oligarchies. First, came the oligarchy of organized Government to maintain my law and order. Next came the oligarchy of the priesthood and medicine men who preached submission to my system and reward after death. Last came the oligarchy of the entrepreneurs who operated my system of trade and commerce. These three have alternately either controlled separately or worked together in all countries. I have named them Ecclesiasticism, Private Enterprise and the Political State.

Their role today is the same that it has always been. Organized government is necessary under any social system. Since the first concern of any government is to maintain itself, mine is no different from what any other form of government would be in that respect. It protects its own, i.e., the *Price System* of production and exchange.

Private Enterprise functions to ex-

plot the natural resources of the land and the human components thereof for all the profit the traffic will bear. It is easy to see how the interests of my three oligarchies tie in together.

'I often say that if you can measure that of which you can speak, you know something of your subject; but if you cannot measure it, your knowledge is meager and unsatisfactory.'—Lord Kelvin.

Such Stuff As Dreams Are Made Of

The last factor which adds to the strength of my system and its resistance to change is the set of sugar-coated Abstract Concepts that has been woven into it by my philosophers and historians. I conjured these empty ideas out of nothing. The proclivity of men to become enamored of visionary conceptions is truly amazing.

Abstract concepts are composed of symbols in the minds of men which are *not* reflections of real things in the physical world about him. For example, the mental symbol 'horse' represents something real in the physical world, that is, 1500 pounds of flesh and bones on the hoof. Thus, it is a Real Concept. To prove it, you can perform an operation to demonstrate its reality. You can describe a horse with words, i.e., other symbols, and then go out in the

physical world, find a horse and show where your verbal description fits the real thing.

If every single real thing in the physical world had its symbol in the minds of men, there would be an even number of symbols and things and no more. All mental symbols would be Real Concepts. Such is not the case, however; the minds of men in addition to being able to contain Real Concepts can also entertain an apparently limitless number of empty symbols which represent nothing in the physical world.

This fact is one of the main props of my system. Over a period of time my philosophers, and more lately that frustrated breed of psychotic complexes called the Liberal, have invented thousands of Abstract Concepts to intrigue the minds of men. Among these are Liberty, Freedom, Equality, Fraternity, Justice, Natural Rights and Survival of The Fittest, Right, Wrong, Morals, Ethics, Sin and so on. Try to perform an operation to prove the existence of any of these concepts in the physical world of reality and see how far you get.

I am not afraid of these Abstract Concepts because, not being physical entities, they can be and are clothed in ever shifting definitions and can never be united on any common basis of agreement. They can never harm my system and they're very useful. The intensity of their hold upon the

minds of men is so great, however, that they will face blazing machine guns in defense of them even though they don't exist. Whether men will go as far in the furtherance of Real Concepts remains to be seen.

Abstract Concepts help to conceal the real nature of my system. They keep men busy ever seeking to attain that which is unattainable. If you will analyze my system closely, you will see that in its physical operations to produce goods and services, it conforms to some physical laws. But in its exchange of this physical wealth, it ignores physical laws and the control is carried on by methods devised out of Abstract Concepts, or nothing. No wonder it jams up every so often.

Exchange value is a function of scarcity. When scarcity departs the concept of exchange value collapses, revealing its abstract nature. Therefore under a Price System we are actually rich in inverse proportion to what we don't have, in goods and services.

As long as Scarcity lasts, my system can operate. But when Abundance enters the picture, Scarcity and Values both disappear and all the Abstract Concepts of my system will shrink back into the nothing from whence they came. When this occurs, Real Concepts will enter the picture and then men will discover for the first time what I have known all

along. That is, that the benefits they have been seeking for ages in Abstract Concepts never did reside there at all but always were waiting to be found in Real Concepts derived directly from the physical world around them.

Abundance Haunts Me

Of all the Real Concepts there are, the one called Abundance for Everyone makes me shiver every time I hear it. Those words contain my death warrant. As I look back now, I can see that my troubles began in 1782 A.D. when the first double-acting steam engine was developed. Oh! If I had only known then what I know now. I would have been absolutely ruthless in the eradication of Science and all thoughts concerning Science.

For I was just then enjoying the tail end of a thousand year moratorium on change. My triple oligarchy, Ecclesiasticism, Private Enterprise and the Political State had installed and maintained this glorious period in my name. Historians call it the Dark Ages, but to me it was the Golden Age of the Price System. There were no upsetting thoughts about Abundance For Everyone then. Men were content to work away from sun to sun for the greater glory and profit of their masters, assured of suitable rewards hereafter. The few heretics who dissented from my sys-

Who discovered the use of fire, and how; who discovered the principle of the wheel; who first smelted iron ore? Thousands of contributions to the advance of scientific knowledge were made by countless known and unknown men. Ask yourself, who owns science?

tem were quickly taken care of in medieval torture chambers and at the stake. Long success had made me lax and I had forgotten that underneath the superimposed social structure, hoary with folklore and ancient traditions, Scientific Knowledge was increasing.

In the Ancient World, Scientific Knowledge had gotten off to a respectable start in Greece and at Alexandria. But the legions of Rome and the fanatical followers of Mohammed soon had the situation well in hand. Then I froze the status quo for a thousand years. It seemed good enough to last forever. Men, however, were discovering physical laws and learning how to apply them. Apparently even my *Price System* can't stop men from thinking and experimenting.

I Am Outflanked

By the time the 18th Century rolled around, this growing body of knowledge had spawned the witches' brew of Science, the Scientific Method and

the Scientific Attitude. Inventions were made and existing knowledge of physical laws applied therein. Machinery came into being, crude and cumbersome, but more efficient than my age-old methods of Human Toil and Hand Tools had been. Some unknown enemy of mine discovered that any motion that is repetitive can be performed better by machinery than by human hands. Then the factory system of production was born and my arch enemy Technology entered the picture.

Coincident with these developments came a greatly increased use of power derived from sources outside the human body such as coal, oil, gas, wind and falling water to turn the factory wheels. Without this latter development, Technology would not have attained its present estate. Though, of course, Technology and Extraneous Energy are more or less the same thing, like identical twins. The conversion of Extraneous Energy to use it for power was new and revolutionary.

All throughout my long history, the only source of power available had been the human body supplemented by crude windmills and the power of work animals. So, the only way to produce more was to employ more men or work longer hours. The average power of a human body is one-tenth that of an average horse. In 1782 the first double-acting steam

engine developed many times the power of one horse. So the industrial revolution began and I, poor fool, welcomed all this.

When George Washington drove the 250 miles from Mt. Vernon to New York City for his inauguration the journey required seven days. Today one can reach any place on earth in less than three days. Horse power ideas, too, belong in the horse-power age.

Had I foreseen the ultimate results of the impact of Technology and Energy upon my *Price System*, I would have put a stop to it in its early stages. Now it's too late. Science has grown to gargantuan proportions and men have become dependent upon the machines they have created. The best I can hope for now is to revert to some intermediate stage of development and freeze my system there. In fact, I have been staging a powerful attempt in that direction lately in Europe and Asia. I call it Fascism. It's my only hope.

There is no one to blame for my present predicament except myself. I have been a partner to my own downfall. Of all the heretics, liberals and radicals spawned by every protest movement in history, none have given me such cause to worry as my own stupidity. The operating devices which worked so well for so long don't seem to work so well these days.

This has been more true in North America than in the rest of the world. Here, Technology and Energy have advanced further than anywhere else.

'When I use a word,' Humpty Dumpty said, 'it means just what I choose it to mean — neither more nor less.'—Lewis Carrol.

I Go On A Long Spree

In the beginning of the Industrial Revolution, I enjoyed expansion, such as had never happened to my system before. I spread into the furthest corners of the earth. I modernized my operating characteristics and added refinements unknown in the simpler Agrarian-Handicraft stages of the past. Any Debt Merchant or Economist can reel off the list for you. They study the pathology of my operating devices (which you will remember were conjured out of nothing) without ever inquiring into their essential nature. That is because these gentry are well chosen for lack of perspicacity. But at least they are familiar with the new nomenclature.

When expansion began I saw at once that Private Enterprise needed a few more Abstract Concepts to assist it. So I conjured up the following: Live and Let Live, Competition Is The Life of Trade, Individual Initiative, Plan of Plenty, Rugged Individualism, Niggardliness of Nature, Law of Diminishing Returns, Business Responsibility and Free Enterprise.

They sound beautiful and have functioned well, but I can assure you they are as hollow as a puff ball.

When the Political State saw Private Enterprise expanding into Corporate Enterprise, it too had to modernize. So I added a set of Abstract Concepts to it also, such as: Political Democracy, The Voice of the People is the Voice of God, Government of Laws and Not of Men, Equality Before the Law, Freedom of the Press, Freedom from Want, Freedom from Fear, and so on. Any politician can reel off the list for you. They're always spouting about these Abstract Concepts.

If you study history closely, you will find that these latter day Abstract Concepts came in with the Industrial Revolution. They are now part and parcel of my operating characteristics. If you will examine them carefully you will see that they cannot be worn as clothes to keep out the cold nor eaten for food to nourish the body. They are in all respects negotiable the same as Money, and can be and are bought, sold and traded in on the open market.

Malthusianism Outwitted

One of the first effects of the Industrial Revolution was an upsurge in population. It was possible with the new power and Technology to produce more commodities. Thus, it was possible for a larger number of men to live. This trend has continued. For the first hundred years or so of the new order, it didn't matter. Industry was expanding and the birth rate of new jobs was always

greater than the death rate of old jobs, eliminated by the advance of Technology. If I succeed in reverting to a lower stage of industrial development and freeze social change, it means that the population will also have to be decreased to the number that can be supported by a less advanced stage of production.

In one country, Russia, composing one-sixth of the world's land area, two members of my triple oligarchy were kicked unceremoniously out of the picture by a political revolution in 1917 A.D. These were Private Enterprise and Ecclesiasticism. However, the Political State took over their functions and I still operate the same old way there. My stage of development there can be defined as State Capitalism. It functions the same except that Private Enterprise has become State Enterprise and Ecclesiasticism has been emasculated to a great extent. However, the Technology of Russia is growing rapidly and I fear the worst.

Fascism is a network of compulsions in economics, government and religion, designed to freeze social change and maintain the ancient status woe. It is the consolidation of all minor rackets into one major monopoly for the benefit of wealth and privilege.

Most of the world is still in the first or second stages of the Industrial Revolution, and it shouldn't be too hard to retard social change there. These backward nations do not possess enough natural resources to de-

velop much further. I, the *Price System*, can still operate according to the old formula there. Perhaps a federation of some nations based upon the location of natural resources could arise. That would make conditions uncomfortable for me. The Political State in every country, however, is prepared with a powerful Abstract Concept called Nationalism to oppose any change. The juju of my Abstract Concepts is potent, even if they themselves are not real.

Look Down That Lonesome Road

As I survey the world today, I find one Continent where I am in extreme danger of liquidating myself in the very near future. I am not one to cast blame for my failures upon others. No political ideologies or economic utopian nostrums can alter the basic operating characteristics of my system one bit. Their proponents make good scapegoats but my real enemy is the fact I, the *Price System*, cannot adjust myself today in America to the impact of Technology and Energy.

In the past when things got tough for me in any country, I could always start a war and channelize social change into homicidal conflict. In the past 3500 years, I have had one or more countries at war for all but 330 years of that time. Corporate Enterprise, particularly benefits greatly in time of war. Prices rise, business booms and profits mount higher. The Political State too has an opportunity to expand its powers and prerogatives. Ecclesiasticism, of course, func-

tions on both sides in every war. As a general rule, the same can be said for Corporate Enterprise in these days of International Bankers, Cartel Agreements and World Commerce. Technology, however, has made war too expensive for me. Not that I mind the killing, but the financial problems are a headache. Worst of all, modern wars are waged with the tools of Technology and (woe is me) the tools of Technology are the tools of social change.

In America, today, the more Technology and Energy that is introduced, the more insoluble my problem becomes. It seems that they function everywhere to defeat my purpose to maintain Scarcity and Values. They increase Profits but make it ever more and more difficult to reinvest Profits. They raise the Debt too high and lower the Interest Rate too low. They increase production and decrease employment. They cut down Purchasing Power and raise up a whole host of new social problems that never existed before. They flood the land with Goods and Services, but dry up the free flow of Medium of Exchange. They close the door on Scarcity, but open it for Abundance For Everyone, thus seriously threatening to destroy Values.

The efforts of the Price System to stop the impact of technology are as futile as the labors of Sisyphus. The only solutions are to stop technology; or realign the social structure in conformity with physical laws.

All this, in spite of my best efforts at Monopoly Control, Restricted Production, High Prices, Shoddy Goods, Buried Patents, Cartel Agreements and Financial and Political Interference. Moreover, the struggle for survival of Private Enterprise makes compulsory the installation of ever more Technology and/or Extraneous Energy.

If A Balloon Goes Up Too High

No matter which way I turn, in America, there is an impasse. The task of creating new Debt in the face of its rapid liquidation and the expense of new Technology becomes ever more and more unbearable. About 1932 Corporate Enterprise gave up the struggle to create New Debt and passed that responsibility over to the Political State. This Lieutenant of mine, as strong as he is now, barely staggers along under the growing load. Perhaps I can solve that one particular problem at least. Debt, if you remember, is created out of nothing. It can also be dissolved back into nothing. I pulled that stunt once before in Germany. It's called Inflation.

Political State increases the amount of Money in circulation until it becomes dirt cheap. When the total amount of Money becomes many times greater than the total Debt, the relative position of Debt is reversed compared to what it was before. It is then small in comparison to Money. So the Debtor takes this Legal Money to his Creditor and pays off his Legal Debts at a fraction of their former

worth. It's a legal swindle, but so what? How about I Promise to Pay, you ask? Well, I told you, it was conjured out of nothing, didn't I? Under Inflation, Private Enterprise performs hari-kiri, for the good of all and then I start all over again with a brand new Private Enterprise.

Science is a fair palace of lofty dimensions. It stands properly ordered and rock solid, upon the enduring base of its postulates. Criticisms originating outside its postulates are categorically absurd.

That won't solve my entire problem in America though. This Continent possesses 78 percent of the world's installed horsepower of machinery, 73 percent of the world's graduate engineers (those damnable brats of Science who are forever designing new Technology), 19 percent of the World's land area, the largest body of technicians and skilled personnel on earth, the lion's share of the World's natural resources and only 10 percent of the World's population. All this adds up to trouble for my System, the *Price System*, of production and Exchange of commodities.

The installation of ever more and efficient Technology in America, which has been accelerated by World War No. 2, makes Scarcity ever harder to maintain and tends to dry up the free flow of Medium of Exchange. If you remember, these are the cornerstones of my system. As more and more efficient Technological Mechanisms are introduced, man-

hours per unit of Production are constantly driven lower. This spells disemployment of labor and decline of total Purchasing Power. The less Purchasing Power, the less Production. The less Production the less Purchasing Power.

I Have To Expand Or Contract

So it becomes necessary to create ever more New Debt to pay for the installation of still more efficient mechanisms to cut the costs of Production and grab a share of the dwindling market. The new mechanisms, however, pay off the Debt so fast that I'm left holding the bag every time. Reinvestment in new industry becomes ever more necessary and ever more difficult.

The birth rate of new jobs created by Technology has long since dropped below the death rate of old jobs destroyed by the same cause. From 1860 to 1914 in America, my Debt expanded at a compound Interest Rate of 5 percent annually. But physical Production expanded at a compound interest rate of 6 percent annually. The Debt was always healthy. Since 1914 the reverse has been the case. Physical Production has risen to a peak and leveled off but Debt is going straight into the high heavens. Since 1932 when Private Enterprise dumped its Debt-creating prerogative onto Political State, the curve of industrial Production has been following the curve of Government spending like a hound dog follows a coon.

As I said, it's not a problem of finances; it's a problem of how to

maintain physical Production at a high level so as to maintain Purchasing Power and thus maintain the free flow of Medium of Exchange. If I allow physical Production to be maintained at a high level, I destroy Scarcity and if I don't, I dry up the flow of Medium of Exchange. Oh, riddle of riddles! How can it be done? If I inflate the Money, I may destroy all of the little remaining confidence in me and thus seal my own death warrant. I got away with it in Germany only because that country was less advanced industrially and could recover rapidly and resume expanding under my methods.

When the first savage reached for a stick to scratch his back with, technology was born. It has been a long time coming of age. But now it's here, and we can either make room for tomorrow or pay the penalty. This generation of Americans has a rendezvous with destiny.

In America, the problem of Production is solved. The Technology is installed and can do the job of distribution of Abundance For Everyone whenever my interference controls are removed. My problem is to stall this off as long as possible; and to devise ways and means to freeze social change on a low level. I don't care if it does involve killing off 50 to 75 percent of the population of America. What is that compared to my beloved Oligarchies, Private Enterprise, and the Political State!

The End Justifies The Means

Since I was conceived in Scarcity and dedicated to Waste I am utterly without scruples. I know very well that the prosperity I am enjoying now while America is engaged in the most fateful war of her history is only transitory. I know that it has been bought at the terrific risk of installing a greatly expanded Technology. I know that when the war is over I will be faced with problems such as I never had to contend with before.

I know that scientists and engineers have been analyzing my operating characteristics and have pointed out every flaw. I know too that a more efficient social system has been designed which will distribute Abundance and Security To Everyone. But even though I know the handwriting is on the wall I have not lost hope. My collapse, and the victory of Technology, is *not* inevitable.

If I cannot rule I can always ruin. If I go down I may be able to arrange things so as to carry all civilization in America with me. But even if Chaos results I will not disappear. Out of that Chaos I will then arise again like Phoenix from its own ashes. For I have been with you a long time and I have learned many tricks. History records the disappearance of eight different civilizations of the past. The causes are obscured in the mists of antiquity. But history has never yet written the record of one single collapse of my system of trade and commerce, The *Price System*.

There is only one thing that can liquidate me permanently. That is the replacement of my *Price System* methods of control devised out of visionary conceptions by Technological methods of control devised out of the reality of physical laws. But it has never been done before and due to the nature of Technology it must be accomplished peacefully. How difficult this is going to be a glance at my record will reveal. I loathe Peace. As I look into the immediate future I can gather strength from the realization that I am not alone. I have many able allies who work unceasingly in my interests. Some of them have been with me a long time.

Social change in the past could only be accomplished with violence. Social change in the Power Age can only be accomplished in peace. The Achilles heel of technology is social violence.

History Speaks Highly of Me

I am the Neolithic man who bartered pretty sea shells and rare stones for food and drink and a place by the fire. I am the tribal medicine man who charged a fee for exorcizing the devils. I am the slaves of Egypt who built the pyramids; and the Pharaohs who were buried there many centuries before my system expanded into Europe. I am the oligarchy of Athens who poisoned Socrates. I am Judas who betrayed Christ; and the Phari-

sees who crucified him. I am the legions of Rome who conquered Greece; and the fanatics of Mohammed who burned the library at Alexandria. I am the Inquisition that persecuted Galileo; and burned Bruno at the stake. I am the radicals of Paris who beheaded Lavoisier: 'The revolution has no need of chemists.' How true from my point of view. I am the mob that shot Elijah Lovejoy; and the Political State that hanged John Brown. I am the brass hats who framed and convicted Billy Mitchell. I am the Capital Investment of the aviation industry which is holding back the adoption of the Flying Wing type of super-bomber in this hour of America's need.

My Upholders Are Legion

I am the esthetes who revel in the delicacies of life that are beyond the reach of the great majority. I am the privileged few who are free to enjoy the fresh air and sunshine, the green meadows, streams and mountains of America. I am all the pot-bellied beneficiaries of my system, whether in broadcloth or overalls. I am also the stolid, patient, underfed worker; and the fat dowager who eats too much and talks too much. I am the miseducated, smart fool who knows all the wrong answers. I am the white collar snobs, the vice-Presidents and Honorable stooges who snub those in more plebian walks of life; and the peasant psychology of the underdog who looks up to Society instead of around at it. I am the myriad of non-producing personnel in all industries

who thrive on the institutionalized red tape of my system.

I am the grand mansions on the Avenue where they will try anything once; and I am the bleak, filthy slums where minds and bodies are dulled by incessant poverty. I am the Park Avenue playboy; and the procurer who hangs around taverns. Their methods differ in degree but not in kind. I am the mink coats of the night clubs. 'You can smell them as they go by.' I am all the 'Nice' kind Christian people of America. How they love to be discreetly dishabile, but not enceinte; and how their hearts can bleed for the poverty stricken children of India, China and all other points 12,000 miles away. I have been spawning them for four generations and today they are 'Nicer' than ever. I am the Banker (Debt Merchant) who never knew anything about his own commodity except how to take a dollar and lend it out at 6 percent interest.

I am the housewife in a constant dither to keep up with the Jones'. I am that monstrous anachronism the father and mother who enslave their beloved children to their own narrow horizons in the 'sacred' name of parenthood. I am the church bells ringing on Sunday morning; and the smug ecclesiastic who rationalizes fear of the unknown into reward after death. My voice is heard plainly in schools and colleges throughout the land; and I am the school teacher who 'cannot lead a normal life unless he, or she, goes to another town under an assumed name.' I am the professors of Liberal Arts and The Hu-

manities; the smooth sophistries of the philosophers; the crackpot dreams of the Utopians; and the poisonous acid of class warfare.

'Behind all these men you have to do with, behind officers and government, and people even, there is the Country Herself, your Country, and . . . you belong to Her as you belong to your own mother. Stand by Her, boy, as you would stand by your mother.'
—Edward Everett Hale in *The Man Without a Country*.

Divide and Conquer

I am the shivering newsboy on the corner peddling his daily trash; the writer who composes it; the editor who polishes it up; the publisher who puts it out; the advertiser who pays for it and censors it; and the dumb sap who believes what he reads in the papers. I am the hard-headed tycoon of industry who imagines his club of economic insecurity is executive ability; and I am the Caspar Milquetoast who is afraid to think out loud. I am the law at the end of the policeman's nightstick; the politician who tells him how far he can go in enforcing the law; I am the hired gunman and thug; and the stool-pigeon who puts the finger on my scapegoats. I am also the clever lawyer who inveigles Justice over to the side with the most Money.

I am all the minority pressure groups seeking preferential advantages at the expense of other minority groups; and I am the peoples' representative who caters to these groups. I am the cash-register concept of social values of the smart business man; and the class hatred of the ideologists of dialectic materialism. I am the engineer and scientist who is more interested in personal gain than in social results. I am all the commercial escapisms of modern society, from the moronic movies to the equally moronic but \$30,000,000 a year comic strip industry. I am the millions of adults and children in this country who cannot even read and write. I am the incalculable inertia of the great mass who never do anything about anything unless they are driven to it.

I am the social system and in-

stitutions designed to fit the Agrarian-Handicraft cultures of other lands, imported from across the ocean and superimposed upon the Great Technology of America. I am the folklore and hoary traditions of 7000 years of human toil, hand tools and Scarcity. I am the 'common sense' of the ignorant crowd; and all the superstitions of the unknown. I am every chiseler looking for a sucker; and every sucker who would like to be a chiseler. I am everyman everywhere with a hamburger sandwich psychology of living standards, in the richest Continent on earth. I am all those who know better but do nothing about it.

I am *YOU* who are reading this article. What have you ever done that conflicts with my interests? With such able allies it will not be easy for Technology to effect my collapse.

'I AM THE PRICE SYSTEM.'

Pro Bono Publico

'Fundamental adjustments in the economic order are necessary and we must move from the competitive struggle to co-operative enterprise—,' Bishop G. Bromley Oxnam resident Methodist bishop of the Boston area at the Illinois Federation of Women's Clubs meeting in the Sherman Hotel, Chicago on May 26, 1943.

According to the account which appeared in the *Chicago Times* of that date the Bishop also stated as follows: 'In the economic system of the future, a man's standing in the community must be based upon the

service he has rendered and not upon the possessions he has acquired.'

'Then only will the economic and social organism be soundly established and attain its end, when it secures for all and each those goods which the wealth and resources of nature, technical achievement and social organization of economic affairs can give.'

—Pope Pius XI's World Letter on Economic Order.

Sharp and Flats

by Robert M. Yoder

Reprinted by permission of *The Chicago Daily News*
Friday, July 30, 1943.

I SUPPOSE that it goes without saying that the great tool of modern times, the symbol and source of what we are and will become, is the factory. That is why I tell in some detail about a factory I saw the other day—one of the new super-colossal plants, built to produce for war. As I say, it is new, and, therefore, the designers could incorporate everything they know about building factories, as of 1943. And while the plant is all but finished, it was only partially operating, which affords an exceptionally good view.

The most impressive thing, I found, are not those usually emphasized. This plant, a division of the Chrysler Corp., includes one building that covers nearly 80 acres, and is the largest single factory building in the world. That, it was interesting to discover, is singularly unimpressive. What is more impressive is the fact that this huge room, with row on row of beautiful sleek machine tools, could just as well be twice as big. They stopped at 80 acres only because they wanted to stop there. Using the same kind of long shed-like sections, they could have run the thing right over into Indiana.

This will be a factory, apparently, where almost all the work is skilled work, but when you see the machinery standing idle, the impressive thing is the amount of skill or talent

that is assembled there before the workmen arrive—the mechanical talent. Here is a tool that feels a part with metal fingers, and carves another exactly like it. How long, and how clumsily, would a man work to acquire the skill that machine is born with?

Here is another into which they thrust bars of red hot steel. The machine's jaws chomp once, twice, three times, and they have moulded the hot steel into part of an airplane motor. Obviously, it shortcuts many hours of carving and grinding. A couple of men equipped with cookie-cutter-like little gadgets are the equal of giants.

You roll through the 80 acres of machine tools and assembly lines on a little bus, moving fairly fast because there is nothing unusual to see. That is what is impressive, if I can make myself clear—the fact that all this is nothing unusual. Here they stand, the machine tools, as commonplace as corn in a field, as repetitious, as boring. But what an assembly of robots this is! Able, talented, clever, with all the electricity in the Grand Coulee for muscle, and overhead carriers to tote and lift what men can't. Like this observer, you may not have the slightest idea what they do, what operations they perform, which are novel, which are ordinary. That

makes little difference. The imposing fact is that they can be built to do almost any task there is, and once built, may be assembled in any strength you like.

They laid enough concrete here to make a road 90 miles long. They strung 500 miles of telephone wire. They use as much water as the city of Troy, N. Y. And echo answers: "So what?" The really significant point is, there was no limit to the number of units they could have put

together here, there is nothing to prevent assembling twice this many machines, and there is nothing to prevent building a hundred factories like this, and there is nothing those factories—like this trim, efficient machine for producing airplane motors—can't make.

How we are to avoid an era of plenty, with tools like this, is hard to see. It'll take some doing. It'll take real stupidity, it will take obstructionism of a truly superior grade.

Only One Step Farther

'It may be doubted if men and women ever made such an unholy mess of things as we did from 1919 to 1939.

We have so developed our mechanical techniques that there is no predictable limit to the number and variety of things we can do. Five centuries ago, even a hundred years ago, the possibilities presented by the ingredients of this planet—iron, wood, vegetables, carbon, oil, the motion of water—were severely restricted by the poverty of the methods that had been developed to make use of them. Today, these possibilities are literally boundless.

As inventors, as engineers, as scientists, as artists of ingenuity, and even genius in the performance of miracles with a particle of dust or a drop of liquid, we are magnificent creatures; as politicians we are more apt to act like a pack of nitwits.

If we win this war and organize . . . for peace, certainly we will not thereby pop ourselves into paradise on

earth, but we will have made entirely practical a fulfillment of human desire which could never have been anything more than a far-off dream.

In this . . . there are formidable obstacles. The petty men, the greedy men, the blind men, will be the enemies of progress as they have always been; but to defeat them, and to make for ourselves and our children a . . . world in which to live and work and play, we do not need to be demigods or supermen. We need first, the will, and second, *about one-fifth of the intelligence in dealing with our fellow men that we display in dealing with coal and steel and casein.*—Excerpts from an article by Rex Stout, author and head of War Writers' Board, in *Steel Horizons* magazine, as reported in Nov. 1, 1943 *Steel*.

More than 54,000 communities in the United States are not served by railroads.—*Automotive Industry Outlook*.

United We Stand For Export Only

Reprinted from a Technocracy Broadcast Over KPAS, Los Angeles

by N. Jerome Bowen 11834-3

'Money is the Nothing you get for Something, before you can get Anything' — Frederick Soddy. Yes, but why let it interfere with America's war effort?

WHILE the armies, navies, and air forces of America engage our fascist enemies in many far-off corners of the world, a many sided battle is being waged here at home against another common enemy. It will last and we, the people of these United States, will continue to lose until we realize that we can only win by establishing scientific, all-embracing controls over all phases of our war economy.

If you think that the threat we speak of is not real and that the battle is not hot, if you do *not* think that we are so far *losing* it, check up on what you pay now for *clothes*, as compared with what you paid two years ago; check on the level of the *food* in your market basket that your dollar buys as compared with what it did two years ago or even six months ago. In the same way compare the cost of anything you buy and finally check up on the total cost of all you buy in relation to your income. For we are speaking of the national struggle against the rising

cost of living, a struggle that seems more hopeless every month because we fight it with such flimsy, inadequate weapons and which we could end overnight by the only means that will ever end it in our favor; that is, by removing, at least temporarily, our present methods of production and distribution which give weight and power to the growing inflationary trend.

Although its beginning was the result of the overseas fireworks, this battle at home began before *our* part of the shooting abroad started. More than a year ago wages and prices had gone so far in their see-saw ascent that the President announced his plans for a major counterattack to be initiated simultaneously on seven fronts. The first four contingents were directed at prices. Price ceilings were to be established on nearly everything from shoe strings to 10-ton tractors. Rationing of most primary foods, later of some articles of clothing, was to be made effective. Wages were to be stabilized, and farm prices adjusted. The *other* three measures were aimed to make *loose money tight*, to hold it in one place so it would not bid up the prices of the shrinking supplies of consumers' goods. To do this the campaign was planned to control consumers' credit, that is, to discourage installment

buying and encourage the paying off of debts; also to pile up national tax levies and push down the profits for all hands.

The barrage was opened by Leon Henderson's General Price Order of 1942, freezing most prices across these United States. The War Labor Board acted on wage stabilization. OPA spread what they intended to be permanent, immovable price ceilings far and wide on many farm products. Then rationing was installed and extended. Here was a program that to its proponents seemed to insure results. To them it seemed infallible and sure-fire. But the forces of inflation instead of receding have advanced and are still advancing. Many of the price ceilings have already sheared their bolts and headed for the stratosphere. Various labor groups have been fighting for and have received wage increases to match the rising cost of living, and from this cause alone more ceilings have grown wings.

The reasons for the failure of this seven front attack on one of America's major home front enemies are many. Here are a few of them. The OPA has been trying to keep the bolts tight on its many price ceilings with less than 4000 field operatives. There are 1,770,335 distribution outlets in these United States. There is now only one OPA inspector for every 443 of these establishments. Plainly his calls on any one of them will be rather infrequent. Not long ago our OPA put out its pitiful plea that it had no hope of controlling prices without the voluntary coopera-

tion of the American people. Technocracy points out that we never have accomplished and never will accomplish price control by the voluntary assistance of the American people. Voluntary methods are no more successful in fighting the difficulties at home than they would have been if applied to the mobilization of our Armed Forces to fight abroad.

One reason for the non-support of price regulations by the general public is this: As long as we persist in clinging to the peace time practices of business operations, profit taking is the major incentive for increasing production. Where profits in any industry are limited by a price ceiling, that particular industry will not greatly exert itself to increase its production.

No Representation Without Pressure Groups.

Furthermore price ceilings are threatened and attacked by the highly organized farm bloc. The farm population is about 22 percent of the total in these United States. Although they furnish us nearly all of our food and also enormous quantities to be shipped abroad to our Armed Forces and to our Allies, they collect approximately only 10 percent of the national income. Naturally they fight stabilization of farm product prices. On the other hand, every gain the farmers make in their battle is the signal for organized labor to launch a fresh attack on the wage stabilization legislation. When the cost of living rises with the rise in the prices of food,

labor demands increased wages to match it.

The check on installment buying is opposed by the merchants whose mouths water at the sight of so much money for down payments on automobiles, radios, pianos, washing machines and similar high priced commodities, burning the pockets of those who are getting the high wages of the aircraft and other war time industries.

The government's plea that everyone should save more and buy less strikes no answering chord in the breast of the average war industry worker. Many of them never before had incomes sufficient for more than the bare necessities of life. Now that they at last have sufficient for a few of the luxuries they do not relish being barred from buying them.

Brokers and money lenders look askance at or openly oppose the policy of paying off debts. They make their living by the loaning of money. Their occupations would be gone if all debts were paid. Each of these groups fights its own private battle. Each wants a victory for its side, disregarding America's major national objective of winning this war as soon as possible and with the least loss of national wealth and American lives. The sum of these groups is the home front civilian population of America today.

Coming to the subject of more and heavier taxes as a check on inflation we find the toughest, hottest situation of all—Death and Taxes are two threats that everybody fights, but while death cannot be fought off in-

definitely by anyone, the question of *who shall pay how much taxes* has been a much-gnawed bone of contention as long as *money* has functioned in any social order. So today everyone continues *this* fight and Congress is *still* kicking around the various proposals to raise the extra billions and *no one plan* to raise this sum has yet been finally approved.

Now just lately the coal crisis and the miners' strike and their demands for higher wages to match higher food prices has stimulated the administration to a *final* effort to counteract the rising tide of inflation. The administration is now rolling back food retail prices on some commodities, subsidizing the farmer and in some cases the food processors, thereby releasing the most magnificent display of verbal fireworks that our congressional halls have seen for some time. It seems probable that even if these measures were loaded with any effective ammunition whatever, no complete agreement will be reached on them for months.

He Who Steals My Purse Steal Trash—

We have brought down to date a brief review of our national struggle to hold down prices and wages to keep the cost of living down. You will recall that we prefaced that resumé by stating that we cannot win in the battle against inflation until we establish all-embracing scientific controls over all phases of our war economy. The first step must be the removal for

the duration of all those financial controls now operating in production and distribution.

If you have a large tree near your home which shuts out light and air and which may in a heavy storm blow down and wreck your home, you do not waste time and effort lopping off branches here and there. You take it out by the roots. And the difficulties we encounter in attempting to combat this rapidly growing inflationary trend *have their roots* in the business and financial structure within which we operate our national economy.

Technocracy's program of Total Conscription, to be effective for the duration and for six months thereafter, proposes freezing the entire financial structure of the nation for the duration and thus eliminating for the same period all the operations of private and corporate business. Government would take title to all farms and other products at their sources and distribute all products as needed. Food, clothing and all necessities of life would be rationed but not priced. The only money in circulation would be that disbursed by the government in salaries and wages and all civilians would be rated by the same scale of pay as the members of the Armed Forces are. Technocracy calls the program 'Total Conscription,' since by its terms all machines, materiel, men and money of the nation would be conscripted into the service of the Nation.

'For such is the paradoxical character of our economy that when the Germans and Japanese cease to try to

By these terms our own government, instead of the present myriad private and corporate enterprises, would control the flow lines of all goods and services. This is the only method by which the cost of living can ever be controlled and held in check. You cannot have fire without heat, rain without clouds, nor inflation when and where there is no money, nor credit, nor prices, *nor financial structure to inflate*. With Total Conscription in operation pressure groups could press no more for higher wages and lower prices. No one of them would any longer have anything with which or on which *to press*.

Maximum efficiency in our domestic war economy is mandatory for final victory. Cash and credit, money, checks, debt and the devices of buying, selling and profit taking *are not* our offensive weapons. *Their* use only clogs the gears in our factories, hinders free distribution of the necessities of life, and withholds the full employment of our maximum strength for war. *But the blood and Iron, the Men and Materials of America*, the resources and productive ability, freed from Price System bonds and united under the specifications of Total Conscription *can* defeat the high cost of living and wipe out fascism at home and abroad *forever*.

Technocracy asks again, WHAT ARE WE WAITING FOR?

kill us it will be harder for most of us to keep alive than it is at present.' *Fortune* December 1943.

From The Camera's Eyevue —

The Real Story of America

From Material Furnished by Education Division, 8342-7

'When My Ship Comes In'

THE average American pursuing his average way from one year's end to another has little conception of the world of reality around him. Like a fish in the ocean, he is immersed in the artificial ideologies of the social structure of which he is a part. He plods along his well-worn rut, working, eating, sleeping, mating and chasing after phony recreation. A host of little worries, problems and obligations are snapping at his heels every day. His nose is on somebody else's grindstone all the time.

Occasionally he seeks surcease from his sham existence in the corner tavern where any man may become a big shot to himself for a time, and for a price. Or else he may indulge in the vicarious heroisms of Hollywood art, at the movies, or the 99-44/100 percent pure drivel of radio dramas where, in both cases, 'right' always defeats 'wrong' and virtue is triumphant in the end. This is supposed to constitute recreation and escape from reality. He has been told that it is good for him.

Somehow or other, though, he never finds complete satisfaction in his counterfeit existence. Ever present in the average American is a psychological longing that finds expression in the words of a popular song: 'Somewhere over the rainbow, way up high, there's a land that I heard of, once in a lullaby.' This yearning visualizes a far-off land of happiness, where all wrongs will be righted, all dreams will come true and his very own ship will come in, at long last.

Escape Into Reality

It is not physically possible to escape from reality, it is always present. One can only escape from one artificiality to another one with a different odor. Reality always follows and must be reckoned with in the end. That's what is dogging the average American. So he chases from one fraud to another while all around him, pressing in from all sides, are the physical realities by which it is possible for him and all other citizens to live and prosper. Indeed, these physical realities are becoming so insistent in modern America that it is becoming more and more difficult to deny them.

North America has progressed into an order of magnitude and complexity of operations in her civilization wherein the dominating forces behind the superficial social, political and economic facade are the laws of thermodynamics and the impact of technology. It is only by physical facts that we can live and prosper in the Power Age and these facts require very little discussion because they can be determined by measurement. Being dominated by physical laws this culture of the Power Age must also be directed by physical laws.

The superficial, tantalizing existence of the average American today is traceable to the futility of endeavoring to fit all social problems into the Procrustean bed of an obsolete political ideology. The facts which determine our existence cannot be determined by counting noses to get a consensus, when decimal points are necessary. We have outgrown the old standards. We are trying vainly to escape into the past which no longer exists; while the future is rushing at us with potentialities which begger description.

In order to understand the realities of living in the Power Age, it is necessary to know the physical history of America, the story of the impact of science and technology upon the social structure and the resulting instability produced thereby, together with the irreversible trend of physical events following that impact. It is not enough to know the technical aspects of science; millions are familiar with that now. One must also grasp the social aspects of science.

This fact is understood by only a relatively few Americans today and there is only one Organization set up to propagate knowledge of this type. That Organization is **TECHNOCRACY INC.** It is dedicated to a more efficient design of social and industrial operations. For our picture story this time let's escape into reality and pay a visit to the **DETROIT SECTION OF TECHNOCRACY INC. AT 9108 WOODWARD AVE.** There, on the walls, for all who care to see, is the Real Story of America in the form of maps, charts and mural paintings.

SEC. I
R.D.8342

TECHNOCRACY INC

TOTAL CONSCRIPTION

MEN

MACHINES

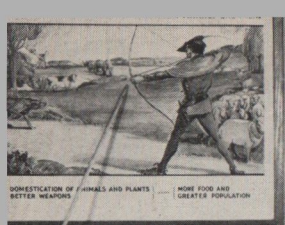
MATERIAL

MONEY

ALL TECHPHOTOS BY 8342-I

A morning view of Technocracy Hall, with two large show windows. The one to the reader's left has a large disk set up in front of a deep blue background, giving the illusion of a globe. The North American Continent faces toward the onlooker. The other window is used for literature displays, etc. Inside are offices, a meeting hall and work and recreation rooms. It's the center for all educational and social activities of the Technocrats of Detroit. It's open every day from 10 A.M. till WHEN? A.M.

Inspecting the maps comes first in our tour. Guide gives data on population, resources and available energy of various areas. The possession of ample energy and resources in any area dictates the necessity of technological coordination for a very high standard of living because it invalidates the human-toil, hand-tool scarcity methods natural to low energy and resource areas. America is the greatest technological potential in the world. Russia comes next. America's problem is one of abundance.



THE POSTULATES OF SCIENCE
A POSTULATE PARTAKES OF THE NATURE OF A FACT
BUT DIFFERS FROM A FACT IN THAT THE OBSERVATIONS
SUPPORTING IT ARE NOT CONFIRMABLE

- 1st POSTULATE
THE EXTERIOR WORLD ACTUALLY IS
- 2nd POSTULATE
NATURE IS UNIFORM
- 3rd POSTULATE
THERE ARE SYMBOLS IN THE MIND
WHICH STAND FOR EVENTS AND
THINGS IN THE EXTERIOR WORLD



INTRODUCTION TO SCIENCE

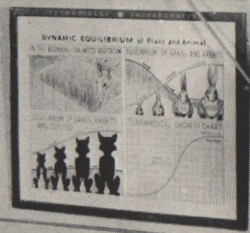
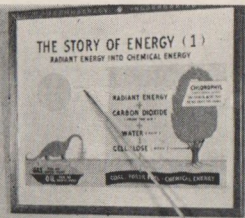
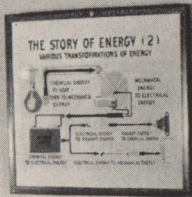
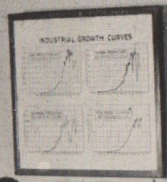
SCIENCE -
THE METHOD OF THE DETERMINATION OF THE MOST PROBABLE

A FACT -
A CLOSE AGREEMENT OF A SERIES OF OBSERVATIONS OF THE SAME PHENOMENON - All observations must be susceptible of confirmation

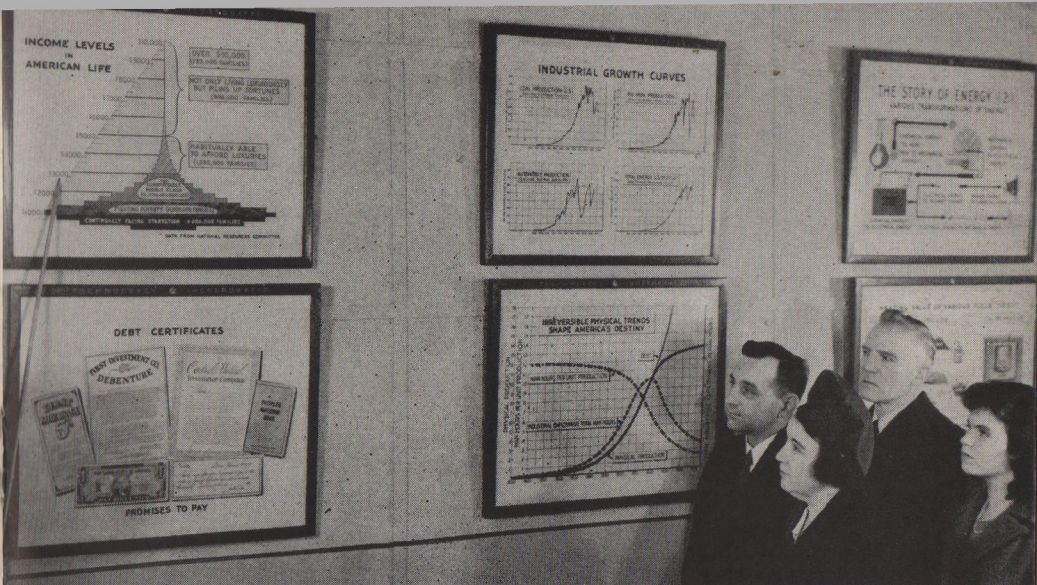
A DEFINITION -
AN AGREEMENT-wholly arbitrary in character-AMONG MEN



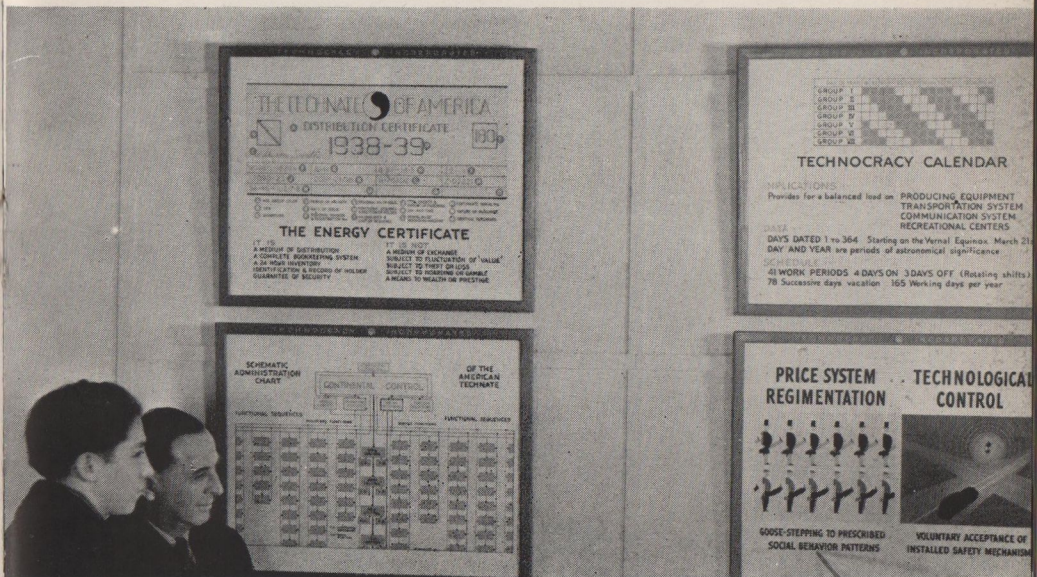
Science shows the correct way to approach the social problem. First comes the three basic postulates of science, then the nature of Fact and Definition and the scientific method. This is elementary and indispensable. Man's progression from the savage state can be measured by his rate of energy conversion. Naked and unarmed, he was prey for wild animals. With fire and club he could hold his ground. With domestic animals, windmills and bow and arrow he became more secure and dominating.



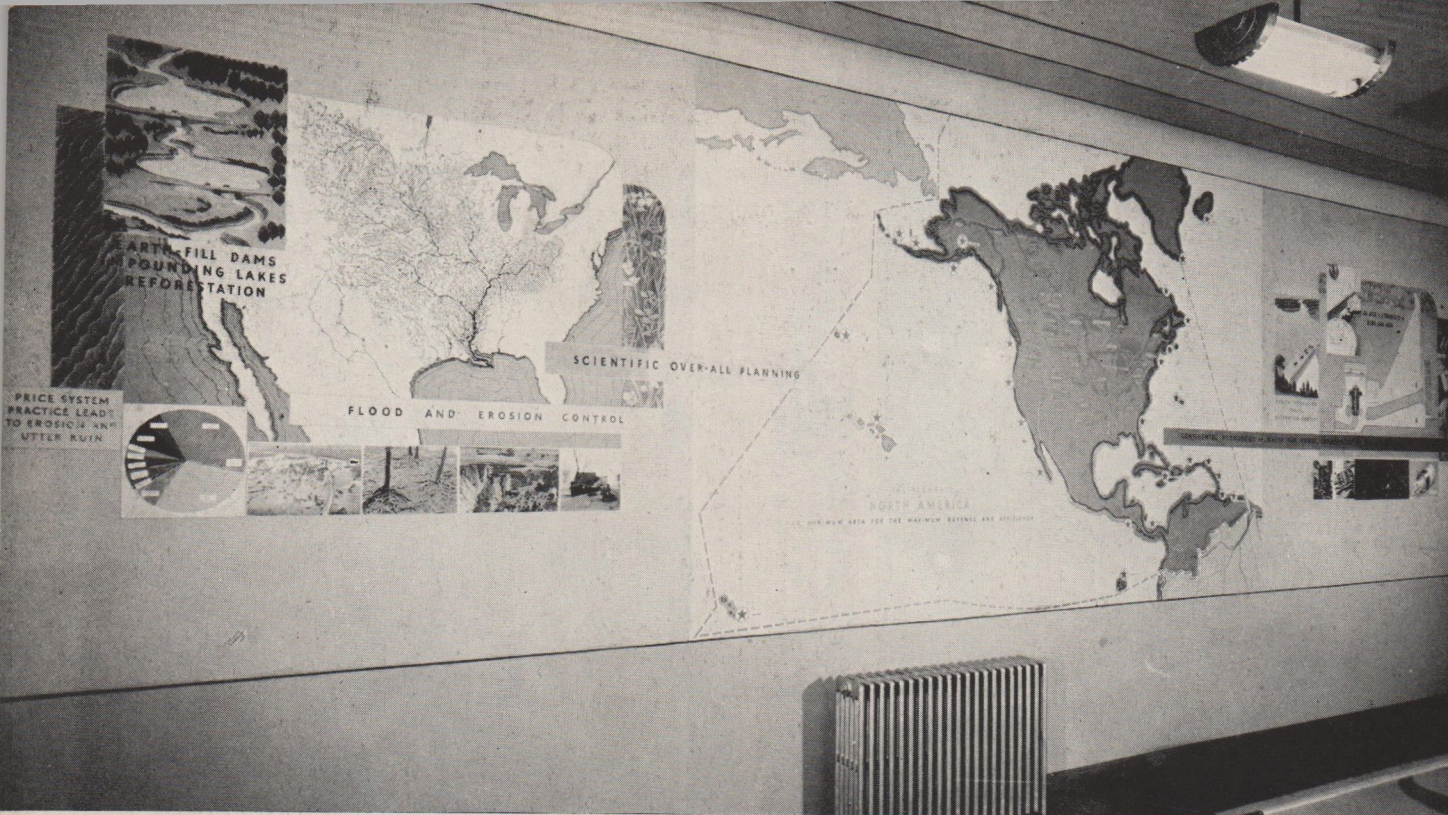
There is a perpetual struggle going on between all plant and animal life for a larger share of the Sun's energy. This creates a state of natural balance, i.e., dynamic equilibrium. Any species that captures more energy disturbs this balance in its favor. All plant and animal life pursues a fundamental 'S' shaped growth curve. Energy is basic to all life; it can be changed into many forms for use and it can be measured. The law of energy determinants is immutable.



Industrial growth curves follow the same 'S' shape as growth curves in the plant and animal world, starting slowly, accelerating to a compound interest rate and levelling off. Then they may remain constant, decline to a lower level or to zero. The interference control over higher industrial growth is the mechanism of the Price System. Goods cannot be produced except by creating ever more debt. This is already past history in American life. Notice the chart of Income Levels in American life.



Illustrated here are the Energy Certificate, a non-debt creating medium of distribution; the Technocracy calendar, necessary to attain a balanced load system of production; and the Schematic Administrative Chart for technological control. All this is a scientific design to tip the factors of dynamic equilibrium in our favor. America must either go up or down. The design involves voluntary acceptance of scientific controls, because social change must be accomplished peacefully.



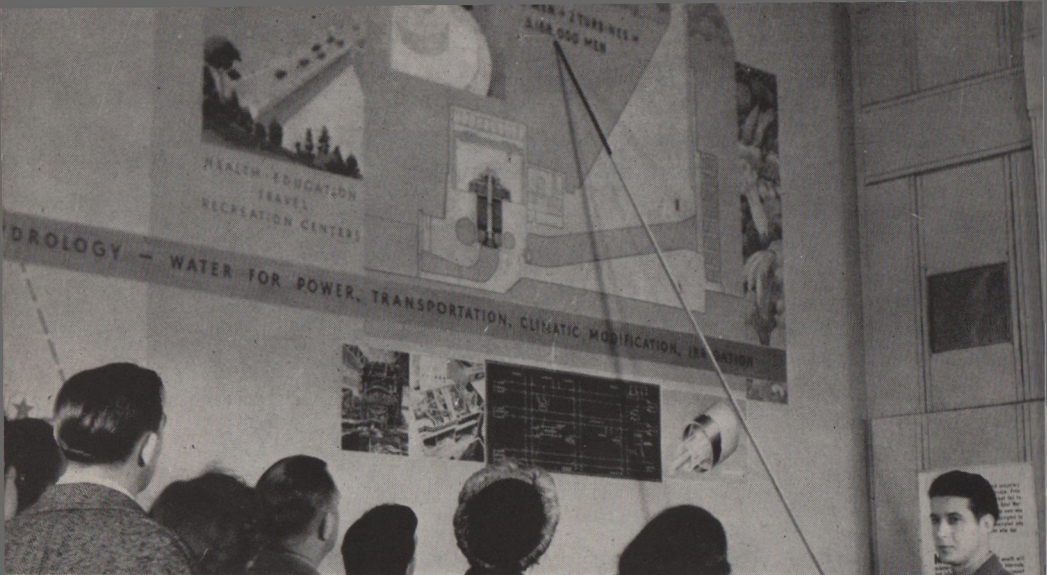
Overall view of mural paintings on north wall of the meeting room. They were designed and painted by Technocrats. For comparison with better known murals in Detroit, see *January-February Great Lakes Technocrat*, page 43. The North American Continent shown comprises 19 percent of the world's land area. It has the full range of climatic conditions and the lion's share of the world's natural resources.

Racially, it is the most homogeneous area on earth; geographically the most united; industrially the most advanced. It has over 2/3rds of the world's engineers and the largest body of skilled personnel, yet contains only 9 percent of the World's population. North America is one organic and functional unit. Abundance is possible on this Continent now.



Technocracy proposes the application of Science to this Continental Area. Since America is the richest loot in all history, it is necessary to consolidate this area; vastly expand our technology; build the world's most powerful Armed Force; construct Continental superhighways; dig Continental inland waterways; install a Continental power transmission system; and provide gigantic defense bases around its perimeter. From

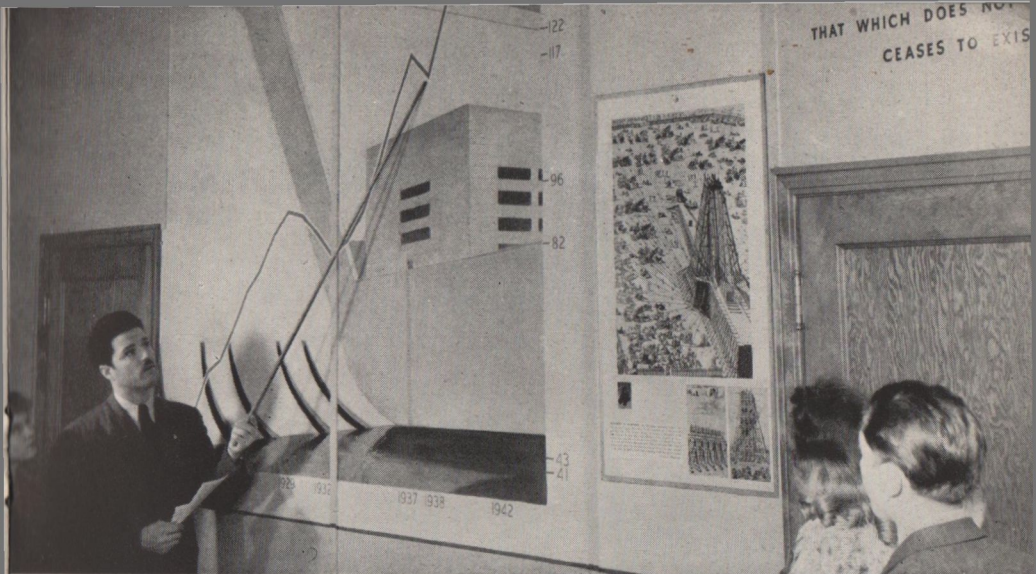
the International Date Line on the West to a boundary line in the East reaching from the tip of French Guiana to Greenland is the minimum area for the maximum defense of America. Who shall say that this great motherland of the Power Age needs less defense? This proposal is the greatest project ever conceived by the mind of man.



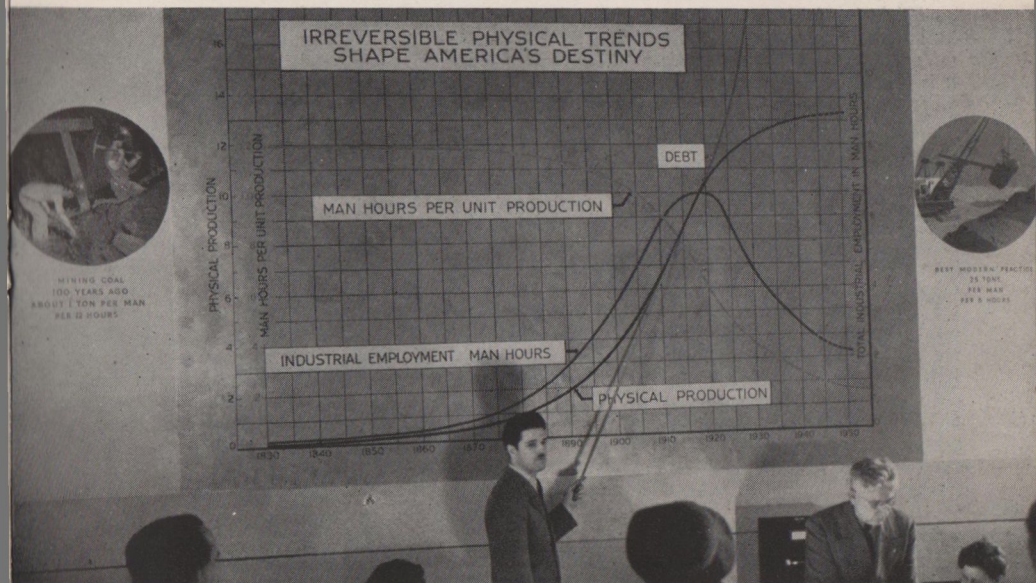
Two turbines added to the skill of 38 men equals the labor power of 3,168,000 men. Doesn't make sense? Yes it does. The social implication involved is food on the average man's table, shelter for him and his family against the elements and security for his old age. He had better learn its meaning. Below is a blueprint of the Continental power system. To its right is a cross-sectional view of the underground cable for transmitting 1,000,000 volts D.C., 3,000 miles, with only 10 percent line loss.



Millions of years of sedimentation deposited on America's surface 9 inches of fertile top soil. Every year 1,000,000,000 tons of it is washed into the oceans. Out of 1,903,576,620 acres, 41.5 percent are seriously eroded, 14.8 percent severely so, 7.6 percent useless and only 36.1 percent unaffected. One-third of America's resources have been literally sold down its rivers. Price System methods lead to erosion and ruin. Reforestation and thousands of dams are necessary to halt this waste.

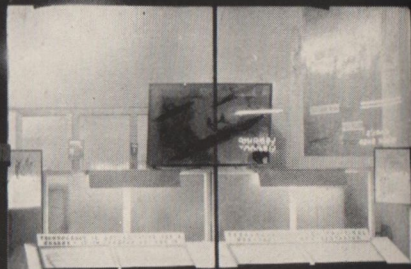
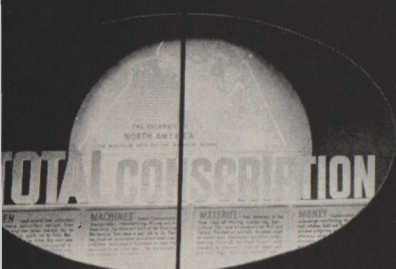


The greatest engineering feat of the Middle Ages was the moving of a 75 ton obelisk 800 feet from the Circus of Nero to St. Peter's Square in Rome. It required 907 men and 75 horses 18 months to do the job. Today a crane operated by one man can move 75 tons 800 feet in 10 minutes. In October 1943 the daily production of electric power in the U. S. was almost 700,000,000 kilo-watt hours. Multiply this by 13 and you get the number of men it takes to equal it. This is the Power Age. Get the idea?



One man could produce one ton of coal in twelve hours 100 years ago. Today in a modern strip mine one man can produce 25 tons of coal in 8 hours. Notice the 'S' shaped curves on this basic chart by *Technocracy Inc.* Notice how total man-hours and man-hours per unit are declining toward zero while production has risen to a high peak. The only way to produce more is to work less. These curves obey the physical laws of dynamic equilibrium. They hold the answer to America's problems.

TECHNOCRACY INC.



TECHNOCRACY IS AN OPEN BOOK

As night settles over America's greatest industrial city, the fluorescent lights blaze out bravely at TECHNOCRACY Headquarters. Until the early morning hours Technocrats work and plan for America's defense and future destiny. The social analysis of Technocracy is irrefutable. Its synthesis of a modernized social system is buttressed by the best scientific evidence available. If Technocracy is 100 percent wrong, then the worst that can be said about it is that it never did any one any harm. But, if it is correct then God help America, for no other power will be able to, if her citizens do not adopt scientific methods of control.

SINCE JULY 1940, 18 MONTHS BEFORE THE JAPS BOMBED PEARL HARBOR, THE SOCIAL PROGRAM OF TECHNOCRACY HAS BEEN PUT ON THE SHELF. No nation can achieve social change internally unless it is first free from outside aggression and inside treason. Technocracy warned against the rise of World Fascism as early as 1935, and spoke up repeatedly in the years that followed.

In August 1938, Technocracy presented specifications for the Army, Navy, and Airforce to repel any attempted attack from Atlantic or Pacific, and charged that the military budget of the United States was inadequate. In September 1939, Technocracy demanded the development of a Continental strategy and the planned generalship of all Continental operations for the security of America. In home defense activities, Technocracy has participated to the full. Our Section Headquarters have been used for Selective Service registrations, for first aid classes, and air raid warden work. Technocracy's mobile sound units are used by police and fire departments. On December 7, 1941, Howard Scott, Director-in-Chief of Technocracy, sent a telegram to President Roosevelt in the name of the Organization placing the entire personnel and equipment of Technocracy Inc. at the disposal of the Commander-in-Chief and pledging the unqualified support of Technocracy to the Administration's war effort.

SINCE 18 MONTHS BEFORE THIS WAR TECHNOCRACY HAS BEEN ADVOCATING TOTAL CONSCRIPTION. The trend of events is moving irresistibly toward the perilous post-war period ahead. Total Conscription will be even more necessary then than now. If we insist on winning this war at the high cost of Price System methods, we will be in great danger of losing the peace and sacrificing the greater destiny of America to pro-fascism at home unless we adopt Total Conscription of Men, Machines, Materiel and Money, with National Service from All and Profits to None. Total Conscription is the key to America's future. How about it, Mr. and Mrs. America? INVESTIGATE TECHNOCRACY.

Lives, Fortunes, Sacred Honor--or Profits?

by Thomas H. Gibbins

Patriotism Consists of Deeds

WE pledge our lives, our fortunes, our sacred honor.' These words, written into the Declaration of Independence by our forefathers, show to what length they were prepared to sacrifice to set up their own mode of social control, a mode of control that would be acceptable to a majority of the people living under its jurisdiction. They fought a long and bitter war to win that right, they sacrificed lives, fortunes and upheld their sacred honor to win that war, **AND THEY WON.**

We, too, are today fighting a major war spread to the far corners of the earth, though for different reasons and principles, a war against the world-wide conspiracy of fascist control. We dare not, **WE MUST NOT LOSE**, but are 'all of us' pledging our lives, our fortunes and sacred honor? One need only scan the daily newspapers and observe the actions of the people in everyday life to get the answer to that question.

Let's have a look at some of the facts of the situation and analyze them and see just who are or are not willing to pledge their lives, fortunes and sacred honor. First we have the pledge; and if need be the sacrifice of human life. The men and women in the Armed Forces have surrendered their Price System privi-

leges for the duration of the war, or the duration of their lives, whichever comes first.

They cannot collect overtime pay for the long, tedious periods of drill, study and training in preparation for combat. They can't go into battle under the protection of a 'cost plus' contract. The Armed Forces of Uncle Sam do not operate according to the principles of so-called 'free enterprise.' The anarchy of privileged individualism is unknown there. So it must be said that they are pledged and will continue to pledge and if need be to sacrifice their lives. Need more be said!

Treason Also Consists of Deeds

Let's look at the pledge of fortunes or wealth on the home front and what a sorry picture it is. People who are otherwise patriotic will go to almost any length to obtain more wealth and keep what they already have, regardless of the consequences it will have on their fellow citizens as a whole. The present system under which we are trying to function, being what it is, one cannot blame them, for they have been so indoctrinated with a Price System philosophy, which grew out of an age of scarcity,

that they cannot see the possibilities of the high technological age of abundance for all at which we as a nation have arrived.

What about the actions of some individuals and groups of individuals? What about labor? We find that we still have strikes, many of them, in spite of so-called non-strike laws and labor's agreement as a whole not to strike for the duration of the war. For many years the lawful right of labor to strike has been its chief weapon to use for gain. Can you blame labor for continuing to use this weapon for gain when everyone else is using every means at his disposal for gain also? It has been stated publicly that the coal miner's average wage is around \$7 to \$8 a day, longshoremen in the San Francisco Bay area \$15 to \$17 per 10 hour shift, shipyard workers \$60 to \$90 per week for an 8 hour day and 6 day week. There are, however, millions in many lines of work who are still making only \$20 and \$30 a week.

There is such a wide differentiation in wages that there is little wonder that confusion, ill-feelings, strikes and continual changing from one job to another exists. At one of the major ports of the Pacific Coast, the turnover of personnel in many types of work ranges from 25 percent to nearly 100 percent per year, and this even now in spite of the so-called 'job freeze.'

For some time there has been a great hue and cry about the shortage of labor; while businesses, both large and small, have been and still are crying to high heaven that they are be-

ing forced out of business, many more will find it impossible to continue. Large firms will gradually be forced by the march of events to accept more and more government control, many of them will blame government, not realizing that by the same token of the march of events, government is forced to take action in order to conduct and win this Total War.

Through the exigencies of war, the government has become the chief paymaster, but business as a whole still likes to think it is operating on a free, competitive basis. Is it? Most of the business firms who are producing the actual tools of war are getting their 'cost plus' and are all selling to the same buyer, government. Is that competitive, 'free enterprise'? For the time being, they are on a 'gravy train'; others are on it indirectly.

Right now 'free enterprise' is conducting, planning and organizing dozens of post-war agencies to try and keep what is left of it off of the rocks when hostilities cease. Millions of dollars are spent, much time is being wasted, effort and material needed in the war effort is used in advertising via radio, billboard, newspaper and magazine, trying to convince the public that they are the shining exemplars of the greatness of America.

The handwriting is on the wall, but they cannot read it. All of this is coming about in the trend of events caused by the conflict of a system that is diametrically opposed to the physical laws of a highspeed technological set-up. The war has greatly increased the need for more and more

efficient technology. It is rendering the Price System unworkable.

Stumblebums Use Stumblebum Methods

We are fighting a Total War. We are fighting for America, and for what America can be. If we really want to put our whole effort into it, if we want to really pledge our lives, our fortunes, our sacred honor, then why, solely for the sake of business, do we permit so much wasted time, effort and materiel? Why do we still have two, three, four dairy companies delivering dairy products in the same block, three to six bakery trucks delivering bakery products to the same stores, many others in the business of serving the people duplicating each other's efforts in the same block or area? There are still many business firms producing and distributing non-essentials that could be discontinued for the duration. Thousands of people living in Area A Travel to work to Area B, while thousands doing the same type of work travel from Area B to Area A. Not only is this taxing our transportation facilities to the breaking point, but we are using vital resources, such as rubber, metal, oil and labor, at a rapid and needless rate. Then there are thousands of older people, the incapacitated, the retired, the loafers and gamblers occupying much needed housing in crowded defense areas while workers are forced to travel many miles to and from work.

These are only a few cases of the

needless confusion, the waste of time, effort and materiel. There are many more, and it is all a result of Price System operations. 'Free enterprise' would lead us to believe that this is what we are fighting for. Their philosophy seems to be that if 'free enterprise' cannot be saved and maintained, then nothing else is worth saving or maintaining.

Many cannot conceive of any social system being acceptable or desirable without a 'free enterprise' Price System concept. With its demise, they envision stark horror and the whole nation engulfed in some sort of slavery. Nothing could be further from the fact. Modern technology, modern production and distribution of goods, if allowed to be conducted along scientific and engineering lines, plus our abundant natural resources, can and will win this war and create an abundant high standard of living for every man, woman and child on this Continent, regardless of what business thinks.

Public Honor Is Security

We now come to the question of honor, sacred or otherwise. We have been reading daily in the newspapers of black markets. Remember, it takes two to effect a transaction or sale of goods from one to another. There must be a lot of us on the receiving end of the goods, else the black markets could not exist. Then there is the little matter of many of our free private enterprisers indulging in the production of shoddy and inferior war materiel, as well as goods for home

use, and being hailed into court by our government. The question of crime was in peacetime the major and most costly problem of our government; wartime conditions are increasing crime and the cost of combating it. Penal authorities tell us that more than 95 percent of all crime has behind it the motive of individual personal gain. There are, of course, a good many other types of chiseling and conniving, indulged in for personal pleasure and gain.

When one hears, reads and observes all of this, it becomes evident that many millions of us are not pledging either our lives, our fortunes, nor our sacred honor. The reason we behave in this way is not because we are individually evil or nationally evil, but simply because the system being what it is, that mode of behavior is most natural.

The members of Technocracy Inc. are proud to belong to an organization which for more than a year and a half before Pearl Harbor advocated and put before the people of America the program of Total Conscription of Men, Machines, Materiel and Money, with National Service from All and Profits to None. The installation of this Victory Program would literally place us all in a position of living up to the pledge of life, fortunes and sacred honor, so that we may win this total war and the peace to follow in the shortest possible time and with the least loss of life. Many millions of people would find that they were in the best position that they have ever been in. It would injure no one; it

would make impossible the continuation of the deplorable conditions now existing.

Space here does not permit of a full and complete coverage of all that Total Conscription will accomplish. Visit your nearest Technocracy Section, listed in this magazine, the *Technocrat*, or the *Northwest Technocrat*. You will be supplied with literature and information on the one complete overall pattern of national operations.

Technocracy does not claim that its program is perfect, but it does claim that it is the most workable plan for solving the problem at hand yet advanced by any person or group of persons, and it has the facts to back up that claim. We challenge our critics and opponents to present a more workable plan. We will be with them 100 percent if they can.

This is a challenge to you. As an American, will you accept the challenge? If in so doing, you find that Technocracy is correct in its analysis and solution, we know that as an honest-to-goodness American you will recognize that we are the outstanding American organization advocating an American factual solution to an American factual problem.

The boys on the battle fronts are giving their all, for you and for me, and for what America will be when they come back. Are YOU giving or doing as much? Have YOU the gall to want to do less? If you would call yourself an American, YOU should have the guts to be out shouting to the housetops Technocracy's Victory Program of Total Conscription.

How Funny Are The 'Funnies'?

by Walter Allen

'Read Me The Funnies, Daddy'

IT IS reported that none of the newspapers in Russia carry comic strips or cartoons so familiar in American papers. The comic strip is of American origin but today has spread to most countries of the world. It is not likely that the present Government of Russia is responsible for the lack of comic strips in the newspapers there. It is more probable that it is due to lack of a demand on the part of the Russian people. They have developed other types of escape mechanisms.

Today in this country every daily paper large or small as well as many weekly papers carry one or more of these comic strips. There are a total of 270 of these features being published at the present time. The standards of many are very low and are just able to 'get by'. Some of the gangster-detective type are sadistic, others are fantastic. They are the products of the hectic times in which we live.

The original object of the comic strip was to provide humor for the reader, hence the name. Few today, however, depend on humor for their plot. Good and bad they supply an escape mechanism for millions of followers. Among these followers are some of our most gifted scientists as well as many in all walks of life.

We have the comic strip with us

today. Are they used as a conditioning factor in the Price System? The answer is for the most part, yes. They are an ingenious method of conditioning the American people along certain lines. The producers of our comic strips follow popular trends. At one time the gangster was the hero of many comics. Today it is the detective and now we have the glamorous, junior G Man. When the present war was apparently a long way off there was no military atmosphere to any of them. Now most of these productions carry war themes.

When a war bond drive is on, the characters will talk up bond sales. Recently an Oregon union protested that 'Little Orphan Annie' was anti-union. We have seen none that are pro-union. The newspapers are their main outlet and because the 'free press' of America is controlled by those who pay for the advertising these features must be kept in line. They are definitely a conditioning factor in the Price System.

Big Business is Not Funny

According to an article in *News-week* for December 27, 1943 Nelson Rockefeller's Office Of Inter-American Affairs spent \$50,000 creating Spanish and Portuguese versions of 'Heroes Verdaderos,' illustrating American war exploits and 'Nuestro Futuro' an anti-nazi comic. The Inter-American Office referred to this as

'serious literature using the comic strip technique.' It has since abandoned the venture.

In the U.S. the comic book business now rollicks 'along at 25,000,000 copies monthly' and retail sales add up to \$30,000,000 annually. 'An overseas edition of 35,000 copies of "Superman" goes to the troops each month.' Children, however, 'remain the best customers.' It is estimated that 95 percent of the 8 to 11 year old group read the 'funnies'; 84 percent of the 12 to 17 year group; and 35 percent of the 18 to 30 year group. The publishers say that after 30 the urge for comics slackens off. These publishers have now 'bolstered their

editorial boards' with clergymen and educators whose job it is to 'lull the fears of parents.' *'Six thousand schools now use the comics as supplementary texts.'*—italics ours.

As has been stated the authors and producers of comics have always followed the trend of events, after it is well under way. The trend of physical events in America is moving toward Total Conscription of Men, Machines, Materiel and Money With National Service From All and Profits To None. It will be interesting to see how the \$30,000,000 comic strip industry will follow this trend after it is well under way. Or will they? Don't be funny. Bilge gathers only in still water.

Which Side Are You On?

Three prominent and wealthy businessmen, one a New Yorker, sat down to lunch in one of our swank Boul Mich clubs the other day. After lunch they decided to have a few cocktails. By the time they were ready to depart their tab was \$36.00. 'Here let me have that check,' exclaimed one of the Chicagoans. 'My income's in such a high bracket now that this \$36.00 check will only cost me \$3.60.' 'Oh, no!' cut in the New Yorker. 'I'm paying this one. I'm entertaining you people on business and I've got a cost-plus contract with the government—so I'll make \$3.60 on the deal.'—Kup's Column, *Chicago Daily Times* December 19, 1943.

'According to one high-priced advertising writer, all the American soldier thinks about as he goes into

battle is the necessity of keeping America absolutely unchanged after the war. This sounds to me much more like the thoughts of a high-powered advertising executive as he sits down to fill out his income tax blank . . . If it (pre-war America) had been good enough, we wouldn't be out here now. We would have stopped Hitler & Company at the first rehearsal instead of waiting until they took their act on the road . . . If it had been good enough, we would be home now making sons and automobiles instead of assaults on fortified positions.'—Pvt. Irwin Shaw in *Yank* December 17, 1943 in a piece on policing and de-polluting Germany after the war. From a weekly letter to service men and women by W. J. O'Brien in *PM's Picture News*.

Lo! The Poor Dumb Indian

by R. B. Langan

Reprinted in part from the Department of the Interior Information Service, Office of Indian Affairs. (Italics ours)

400,000 Indian Givers

THE 'vanishing' American Indian is turning out to be 'one of the most potent minority groups assisting in the Nation's march to victory.' Since Dec. 7, 1941, 18,000 descendants of the original inhabitants of this Continent have joined the Armed Forces of the United States. In some tribes the number of able bodied men who have gone to war runs as high as 70 percent.

Indian women, girls and older men 'have produced more food in the last two years than they ever did before. Indians have raised and sold enough beef, mutton, poultry and fish to feed 220,250 soldiers for one year; enough cereals to feed 367,103; enough potatoes and vegetables for 52,057; and enough wool to supply clothing for 19,000 soldiers for one year.

In recent weeks, top-flight generals in every theater of war have vouched for the prowess of the American Indian in the ranks of the armed services. In a cablegram from Australia recently, General MacArthur said of the American Indian soldier:

"As a warrior his fame is worldwide. Many successful methods of modern warfare are

based on what he evolved many centuries ago. Individually he is exemplifying what the line fighter can do by adaptation of the characteristics of the particular countryside in which he fights. His tactics, so brilliantly utilized by our first great commander, George Washington, again apply in basic principle to the vast jungle-covered reaches of the present war."

In the various services, hundreds of officers are full-blooded Indians. You will find them commanding ships at sea, in the Rangers and the ranks of the paratroopers, piloting fighter planes and bombers, in charge of PT boats and as general officers.

American Indians today are fighting on every front of this war. And Hitler and the Germans know their metal. They discovered the American Indian back in 1918. In that year, just before the Boche surrendered, General Karl Von Prutch said:

"The most dangerous of the American soldier is the Indian. He is brave above all else. He knows far more about camouflage, inherited from his ancestors, than any modern soldier that has the benefit of science and great laboratories. He is a

dead shot. He needs no orders when he advances. He is an army within himself. He is the one American soldier Germany must fear."

In this war, it has been generally conceded, that physically most Indians have the qualifications for a brave fighter. Their long sleek muscles are built for endurance. The sense of perception of most Indians is so acute that they can spot a snake by sound or smell even before they can see it. Too, they have an uncanny faculty of weaseling over any kind of terrain at night, and are wellnigh indefatigable. The Indian also has better muscular coordination than any other race. They love the bayonet, which probably explains why they are the best bayonet fighters in the world.

There are countless stories coming back in regard to the valor of Indians on the battlefield and numerous honors and citations have been given. It would be invidious to pick and choose but among those cited have been Assiniboinis, Cherokees, Chickasaws, Choctaws, Crows, Iroquois, Kiowas, Navajos, Pawnees, Piutes, Sioux, Zuni and many others. The North American Indian has 'laid it on the line' for America.

'But Their Name Is On Your Waters'

The American Indian has a slightly different concept of America as compared to that of the white man. This

may explain in part why they have risen so nobly to defend America. Their individual and collective racial memories are far from overflowing with gratitude toward the white man's Government. They know that the 'white faces' drove them from sea to sea; hounded them out of nearly every worthwhile piece of territory they ever occupied; broke treaty after treaty with them; and to this day treats them with shabby condescension.

No! It is not because the Indian loves the white man that he fights for America. It is because he loves America. He is fighting for it now for the same reasons that he resisted the 'white devil' with his 'long knives,' his rifles and his poisoning whiskey. The Indian is the original inhabitant of the North American Continent. His concepts grew out of the physical America that he loved so well, and are a part of it. When the first white men came to these shores and attempted to transplant the European ideologies they brought along, the Indians resisted.

European ideologies were foreign to him and to America, and still are foreign to both. The Indian's concept was that he belonged to America. The white man's concept is that America belongs to him. The white man says, 'This land is mine.' The Indian says 'I belong to this land.' There is a world of difference. To the Indian his land comes first. To the white man his property rights in the land come first.

This Indian concept made it impossible for him to understand the

sacredness of property rights. To him the land was a thing to occupy and use. When one ceased to use it, his 'right' ceased and some one else could take over. That's where he got into trouble with the white man. He was willing to sell a part of his territory for next to nothing; or to give his white 'friend' some article as a token of his esteem. But if the white man ceased to use it for a time, or if the Indian needed it again, he was likely to ask for its return. So, the term 'Indian Giver' arose.

We Belong to America—Not Europe

Considering the mess that European ideologies have made of America as compared to what could have been done scientifically, especially in the last 20 odd years, perhaps the Indian's instinct was correct. The ideologies with which we are attempting to wage this total, technological war are all European. The list is long and sickening; rationing, price ceiling, priorities, taxes, black markets, business first, and unequal sacrifice on the home front are only a few.

Another European Importation

Neither house mice nor rats are native to America. All of the three species of rats now prevalent here have been imported, from Norway, Central Europe and North Africa. The black and Alexandrian rats from Europe and Africa, respectively, arrived with the first settlers of Jamestown. Some of them could probably claim to be descended from ancestors who came over on the Mayflower. The brown rat from Norway came over

They are foreign to and incompatible with America's technological civilization. They are inimical to and out of tune with the ideal of National Service as practiced by the Armed Forces. There is a much better way, a native American way, a scientific way, to wage total, technological warfare. That is by the Total Conscription of Men, Machines, Materiel and Money, with National Service from All (equality of sacrifice, 'I belong to this land,') and profits (sacredness of property rights) to None.

In 1939 Yale University and the University of Toronto held a seminar conference on Indian problems of today. A discordant note was struck by Indian members of the conference in these words.

'That you, our white brothers, will be invited to participate in any conference that we Indians may call in the future for the purpose of finding solutions to the white man's dilemma in a social and economic order that has, during the last decade, *gone on the rocks.*'

LO! The poor dumb Indian!

at the time of the American revolution.

Damage caused by rats in 1943 reached the highest figure in history, possibly \$200,000,000. Rats living on farms occasion an annual loss of at least \$1.00 each; and in towns and cities the value of material destroyed by rats is probably more than \$2.00 each.

—From Fish and Wildlife Service Department of The Interior.

The Devolution Of Statesmanship

by Ethna Hackett

Wishing Won't Make It So

WISHFUL thinking is the hallmark of the talk put out today by the so-called leadership of the country, financiers, businessmen, professors and politicians. Wishful thinking is its common denominator.

We must plan, they say. We must give the peoples of all the world liberty, freedom, plenty and prosperity. We must see to it, they urge, that postwar plans are made now to prevent chaos, then to bring trade relations with the world in harmony with American private enterprise. God is good, people are kind, one nation needs this, another that. We must plan for more American business.

One group of engineers, technologists and scientists began 25 years ago to work on the facts and figures of America; not as the economist would on the pathology of debt creation, money and profits, but with *what we have*, what we can produce. This group, now a Continent-wide membership organization, publishing this and other periodicals, produced, before America entered this war, an overall design of national wartime operations, with a clear picture of what we are fighting for and what we are fighting against. Technocracy began by stating that the only way to win this war and the peace is by *designing* our national operations, not by wishful thinking.

One hundred years ago, one machine—man—produced 98 percent of the physical work done in America. Only 2 percent was done by mechanical equipment using the extraneous energy of coal, oil, gas or hydro-electric power. Today, it is exactly the reverse. Over 98 percent of the physical work is done by powered equipment using extraneous energy; 2 percent of the physical work is done by man. This represents a complete change in the physical world of producing and living. It is a technological change in the life of humans, leaving nothing of the old but hangover habits. Our folkways are in direct opposition to our production methods.

When the collapse of business came in 1929, what happened? Humpty Dumpty fell off the wall, and all the king's horses and all the king's men have been trying to get Humpty Dumpty back on the wall again—all in one piece. One hundred years ago was the age of natural scarcity. Goods had value in accordance to their scarcity which was an actual scarcity owing to man's physical inability to produce an abundance. The total per capita production was low. Today, to turn out the equivalent energy of five electric power plants in New York would need 64 million men, if we used the power of men's muscles. We would then be using manpower, instead of extraneous energy. The manpower does not exist

to do this work. What is the difference between a manhour and a kilowatt-hour? Between manpower and horsepower? Our standard of living, our war effort would be impossible without these machines.

After the crash in 1929 we had 10 years of poverty, relief, WPA, and all the other letters of the alphabet combined. Why? Because there was a sudden scarcity? Because we could not produce enough? Or because the country would not awaken to the change of procedure necessary to develop and control technological advancement and to operate it scientifically for the maximum benefit of the population? Technology is taking away man's individual earning capacity, *but* is producing abundance beyond the capacity of the traditional business pattern to handle.

The Best Way Out Is Up

Technocracy has talked all these years of technological procedure and control. It has been derided, ridiculed, ostracized, but has kept on and maintained that mental integrity necessary to a fact-finding approach. 'A fact is the close agreement of a series of observations of the same phenomena.' Technocracy was not formed because people wanted to get into politics, nor to start a new political party. Technocracy was formed to make people think. Howard Scott insulted them in large audiences. They went away mad, but they woke up. They tried to disprove Technocracy, but they could not. To understand Technocracy's approach it is necessary for the

average American to change his outlook, to work differently, to get a scientific background, to think objectively.

What is the cause of the present tragic mental confusion? Lack of food? Lack of manpower? Lack of machinery? Lack of trained personnel? What is the answer of the average person and what is the answer of the Technocrat to those questions?

We see a picture one day of \$10,-000 worth of potatoes rotting, then sold at \$1.00 a bag. A few days later restaurants sell potatoes at 15 cents to 20 cents each. This is only an infinitesimal part of the whole problem.

The men of this nation can solve the problem on the home front. We can liquidate our pro-fascists at home and defeat our fascist enemies abroad as well. War wages, war profits and war racketeering, while our brothers, husbands and friends are spilling their blood all over the world, *can be stopped now*. When men are conscripted for the Armed Forces, they give up their right to private enterprise, to chisel, their right to bargain. They have no commercial rights, no right to make money on the side. 'Theirs not to reason why, theirs but to do or die.' The civilian population can do as much in this emergency.

Equal service from all, profits to none is the answer. The government can conscript all money, machines, materiel and all man and woman power, and place all on the same basis as the Armed Forces. Total effort, total efficiency will win a total war quicker and ensure the peace; a peace without fascist interference.

This is a blueprint for victory. It is Technocracy's blueprint, ready and waiting to be used by the U.S.A. Perhaps we will not like it, maybe it will upset some of our age-old concepts.

We will have opinions, beliefs, fears. But this is a war cry! We must rally together or go down to gradual defeat and chaos. We can use our own collective brains to do a collective job.

HOW TO MAINTAIN SCARCITY

(In Four Easy Lessons)

According to *Bread & Butter*, the weekly release of Consumers Union for January 1, 1944. 'A tidy little time bomb is ticking away quietly in the governments Inter-departmental Committee on Leather. The time bomb is a factory method of treating leather with oil or wax to make it as much as 40 percent more durable than untreated leather. Despite the fact that shoes are so scarce they have to be rationed, manufacturers are valiantly resisting the use of this new process.'

Labor unions have a right to refuse to use labor saving devices according to a decision of Federal District Judge A. F. St. Sure of San Francisco, California. He dismissed anti-trust indictments against 78 persons, contractors and labor unions. The unions contended that painting with spray guns would cut down work for their members. The governments charge was restraint of interstate commerce. Citing the United States Supreme Court's decision of February 15, 1943 in a suit resulting from a musician's union ban on recordings the judge said that the highest court had decided unions could combine to increase employment by eliminating use of mechanical devices.—*Cleveland News* April 4, 1943.

Not so many months ago there was a shortage of hogs coming to the slaughtering markets from the farms. There was no shortage of hogs on the farms. But hogs were held back purposely by growers who wanted higher prices. There was a hog pressure bloc at work. The consumer felt it. Butcher shops couldn't supply their customers with pork.

Now so many hogs are coming to market that the packing plants can't take care of them all. The pressure bloc stood it as long as possible. It had to give in when the hogs ate the farmers' profits up. Feeding corn to hungry hogs is a costly business. So hog shipments are the heaviest ever received. Butcher shops have plenty of pork.

Many farmers are writing letters to newspapers protesting against strikes and slowdowns in war plants. The pig that was kept away from market for no other reason than that the farmer wanted more money for his work—the pig represented his work—symbolized just one form of slowing down the war economy.—*Chicago Daily Times*, January 23, 1944.

770,000,000 pounds of fresh food were wasted on the ground, unharvested, in 1942 in the state of California.—*Business Week* August 21, 1943.

Technology Marches On

by Research Division 8741-1

Do Machines Displace Men?

MODERN Machines Save Manpower' was the somewhat frank title of *Mill & Factory* magazine's leading article in its November 1943 issue, sent to production executives in all major industries. Of course, this was not news to Technocrats, nor to engineers either. But the American public, especially those at work, still aren't sure it is true. So we'll quote, with permission of this leading Price System trade magazine, some of these cases where technology is now in use to cut down man-hours. After all, why wait until the postwar period? Isn't this the American way to do things?

All are directly quoted, and we leave you to supply the comments: (parenthesis and italics ours).

Use of Monorail. The installation of a light gantry crane and several monorail runways over the storage space in a yard adjoining a rail siding, permits two men to do the heavy unloading work previously done by 16 men. Result: 14 men released for other work in the plant.

Use of Lift Truck. The purchase of a single, modern high-lift truck . . . efficiently replaced four platform (hand-driven) trucks . . . The lift was able to stack materials directly

and quickly, requiring no additional personnel to help load and unload. Result: Four platform trucks and their operators released . . . two warehousemen who previously helped load and unload . . . were released. (Total of six men released by one man driving an automatic truck.)

Car Puller Saves Manpower . . . a stationary hoist mounted on railroad siding to serve as car puller permits one man to move freight cars . . . eliminated former practice of calling a crew of men. . . Result: No longer necessary to take a crew of men from other duties.

Power Scoops. Four men with wheelbarrows formerly unloaded box cars of bulk materials. . . . The installation of a power scoop now permits one man to handle the same job in less time. Result: Three men available for other work.

Broaching Released Men and Machines. A special nut was being finished on old style machines at the rate of 125 per day per machine. This necessitated tying up 24 of these machines for this work in order to attain the required output. A single broaching machine set up for this type of work easily han-

dled an output of 3,000 pieces per day, thereby doing the work of 24 old machines. Result: 24 old machines and operators made available for other work.

Machine Sweeper. It formerly required four floor sweepers using hand brushes to clean up the floor of a plant each night. By using a machine sweeper, one man was able to sweep this area in *half the time* and do additional cleaning in an adjoining building. Result: Three men relieved for other work; one man available half his time for supplemental cleaning jobs.

Special Press for Tire Rings. Formerly five workers with mallets drove the locking rings under the wheel rims, when assembling rubber tired wheels for combat vehicles. With this new press, a single workman now centers the wheel, pulls a lever, and four iron claws under 21 tons pressure are lowered to snap the ring in place. Result: Four men released for other work; 2,500 man-days a year saved.

Broaching Turbine Blades. The use of 11 modern broaching machines for machining turbine blades permitted the elimination of 60 other machines and operators who were previously doing the same job. The new machines proved so efficient that 11 additional ones were installed to replace 60 other machines. Results: 98 men and machines released for other work.

Overhead Duct Saves Man-

power. When a new machine was installed or a machine moved to another location, it was necessary to run conduit lines and pull wires before the machine could be put in operation. This averaged about 16 man-hours—two electricians doing 8 hours work. The use of an overhead bus duct system and pre-cut and wired connecting circuits permitted one man to do the job in about one hour. Result: 15 man-hours saved on each machine installation.

Machine Replaces 8 Lathes. The installation of a 6-spindle automatic screw machine for use in turning out . . . quantities of coupling parts, permitted a company to turn over 8 lathes, previously used to make these parts, to another department . . . Results: Eight machines and 7 operators released for other work. The (1) operator left to run the new machine could at the same time handle work on adjoining machines.

Centralized Lubrication. By this system all bearings are lubricated in less than 10 minutes from one safe central point. It does not overlook isolated or inaccessible bearings, and it eliminates outage time for bearing repairs which may have been necessary by hit-or-miss methods by hand. Result: One man lubricates more bearings than ten men.

Nine Operators Instead of Forty-One. Nine 6-spindle auto-

matic machines with one operator each are able to produce the same output of airplane engine cylinder sleeves as 45 single spindle machines. Result: A saving of 39 operators. (Nice work, that!)

5 Million Man-Hours Saved.

The substitution of a powder metallurgy technique for orthodox machining operations in the manufacture of a small part in . . . quantities, results in a saving of 5,000,000 man-hours per year. A few presses to be used for the new process, released an entire machine department and its operators for other work. Results: 5 million man-hours saved.

Use of Tumbler in Metal Spraying. It took an operator one day to spray molten aluminum on small parts arranged on wooden racks. By putting these parts in a tumbler which kept them agitated so that all surfaces were exposed to the spray of molten aluminum, the operator was able to spray 1,000 parts in 12 minutes. By this means he was able to produce the entire output of himself and three other operators in less than 1 hour. Result: Three men available for other work; one man available for 7 hours work of another kind each day.

Welded Construction. In the automotive field, the construction of a huge tractor-scraper unit was made possible by arc welding. In addition to cutting equipment investment almost in half,

and reducing the cost per yard of material moved by approximately 54 percent, two units of this type require 7 less men than comparable equipment of shovel, trucks and bulldozer. Result: Seven men available for other work.

We want to point out three important factors in this list, chosen at random from many more examples of producing more by working human toil less and technology more.

First, with one exception (the powder metallurgy) no *basically new* technological methods were mentioned, only examples of advantages in using machines *already developed*. Brand new techniques such as electronics, powder metals, plastics, continuous-flow, etc., would put these machines on a not-so-startling basis.

Second, in each case the company must get its investment out of the new equipment, so the machinery must be used at a higher load-factor than hand tools and methods, to justify themselves.

Third, in every instance no mention was made of gun, shell, explosive, or other purely war products these machines were used for to replace the toil and sweat of expensive, inefficient man-hours. In other words, these are plants producing essentially the same products for peacetime, civilian consumers, in that postwar America where business has made glowing promises of a helicopter in every garage and a job . . . or maybe *Mill & Factory* should not have been so frank.

TECHNOLOGY MARCHES ON!

A Primer of Technocracy

PRELUDE TO THE POWER AGE
BY EDUCATION DIVISION 8741-1

In the first part of this three part acticle we outlined the fundamental role which energy plays in all life on this earth. The progression of man from savagery to the Handicraft-Agrarian stage of social life was traced briefly. From the very beginning man has been dependent upon energy. For thousands of years he lived in an environment of natural scarcity because his ability to produce was held down to the output possible with human toil and hand tools. Then came the re-discovery of America and the first practical steam engine. The stage was all set and the curtain rose on the industrial revolution.

Great Events Or Great Men

On October 12, 1492 Columbus touched land on the island of Guanahani in the West Indies. That was 451 years ago. The three small caravels driven by the energy of the wind with which he navigated the uncharted sea and the crude astrolabe employed to estimate latitude and longitude typified the simple science of that day.

It was the age of Leonardo de Vinci, Copernicus, Kepler, Galileo, Gilbert, Vesalius and Gutenberg. The first principles of modern science were just emerging from out of the long medieval night. It was an age of human toil and scarcity.

Columbus' re-discovery of America did not bring about any fundamental change in the way men lived. It added nothing to his mastery of energy conversion. Production, exchange and communication went on much as before in Europe. The same methods of living and working were

introduced in America and continued unchanged for almost 300 years more. The Kingdoms of the old world scrambled for possessions in the new. Colony after colony was established here. Generation after generation of men and women grew to maturity and decayed early in an environment of incessant toil, struggle and ever-present natural scarcity. Life was a hand to mouth existence for the great majority. On the surface and under the ground of this new country were rich deposits of natural resources. There were sleeping giants of energy in the land.

The early Americans however lacked the knowledge and methods to take advantage of this wealth. The white population increased slowly and colonization and exploration went on apace. Yet there was little change in the way men lived. America had promised much in the minds of men, but physically it yielded little except a change of taskmasters.

Ring Out The Old, Ring In The New

On the fourth of July, 1776, 284 years after Columbus touched upon the outposts of America the Liberty Bell rang out at Philadelphia in the British colony of Pennsylvania, to proclaim American independence from England. This historic occasion like the achievement of Columbus promised much in the minds of men but yielded little except a change of task-masters and a new set of abstract ideals.

However, on the eighth of March in that same year, just 103 days before America proclaimed its independence from England an event occurred that marked the highest point up to then in the progression of mankind. On that day the firm of Boulton and Watt tested the first practical,

single acting steam engine in pumping water out of a coal mine. It worked! This event introduced a fundamental change in the means whereby man lived, for it stepped up his ability to use energy many times, and signaled his major victory so far over the yoke of the past.

At the scene of the test Matthew Boulton is reported to have said to his partner James Watt: 'Mr. Watt I hope and flatter myself that we are at the eve of a fortune.' These words struck the keynote of the industrial revolution then being ushered in. Like the few preceding high points in the history of mankind this scene was pregnant with a meaning which has steadily increased through succeeding generations.

Next Issue: *America On The Go*

Belief Is Not Knowledge

'The mightiest fact of modern times is that man now can build machines to do enough work, and has enough scientific mastery of nature's forces and materials, to lessen his poverty. Still more productive machinery and still more facts are certain to appear. . . . Not long ago no more goods could be produced than could be created by the muscles of men and animals, with slight help from wind and water. Now electricity, steam and petroleum—engine muscles—do immense work. Now precise facts about soil, metals, livestock, about all sorts of things, have taken the place of guesswork . . . Human mastery of nature is far from complete, but it has multiplied many times in the last two or three gen-

erations. Man's mastery of himself has some distance to go, too.'—Wheeler McMillen, editor of *Farm Journal* magazine, in Jan. 1944 issue. (He is the leader of Farm Chemurgy movement)

'We are getting to a point where beliefs and opinions are having less and less effect on the world's activities, but where *technological progress* and the great increase of technical departments in government . . . are beginning to impress even the public with the fact that *knowledge rather than belief* is needed to make the world go round . . . this technological age where the job rules, where results count.'—William B. Stout, Industrial Designer, in *Petroleum World*, 1/43.

Technocracy and Your Trade

WILL THE 'OKIES' RETURN?

by-Pvt. Arland R. Meade

Out Where The Tall Corn Grows

AN Iowa farmer has produced substantial evidence in support of Technocracy's analysis and predictions, according to a news release of the U. S. Department of Agriculture. The Rural Electrification Administration gave him an award for his accomplishment, the first award of its kind. Technocracy was not mentioned in the award, but the evidence by any other name would be just as technocratic. Here is the story.

Ralph Childs, of Manchester, Iowa made a very simple and fundamental step. Last year he traded two good flesh and blood hired men for 10,200 kilowatt hours. These 'electrical hired men' did not sit down; they did not get sick; they did not waste time arguing politics, or anything else. They did not take holidays with or without pay; they did not strike; they never had sore or tired muscles.

In fact they cooperated so well that as compared to the previous year Mr. Childs farmed 80 more acres; doubled the farm pig production; kept twice as many laying hens; brooded 500 more chicks; produced 7000 more pounds of butterfat; yielded 5,480 dozen more eggs; kept 45 more beef animals.

Successful Farming in its January, 1944 issue summed it up as follows:

'In short, the production of food units has jumped 370 percent on the average.' Electrification of the Childs farm had brought such an increase in production with such decrease in manpower used that the REA gave Mr. Childs a new award, and spread the news by press and radio to every state in the union.

The use of extraneous energy, that is, energy derived from inanimate sources had produced almost four times as much food as before and at the same time had freed two men for the armed forces. This is all to the good.

Keep What Home Fires Burning?

But there comes a day of peace. And, do the two displaced men come back to resume their jobs? What jobs? The pumping of water for the cattle, a job which is being done by electric power at a minute fraction of the former cost? The mixing of feed, which is being done by fast-mixing machines operated by electricity? The sawing of wood? Turning a grindstone for sharpening tools?

No, they cannot resume jobs that are non-existent. Thanks to electrical energy, the farmer is producing much more with much less human labor. There is no need to rehire the displaced workers.

Try the neighboring farms? Same story. Well, get out of the dairy, the poultry houses, out to the bigger farms where there is open field work? Surely the long furrows are not electrified?

No, not entirely, but in America there is no escape from the use of extraneous energy. No longer are millions of men used to drive and care for millions of horses and mules, for tractors, using extraneous energy from fuel oil are rapidly eliminating the less efficient equine horsepower. From the first year of World War one to the first year of World War two nearly 12,000,000 of our horse and mule population disappeared. Their work is being done by fewer than 2,000,000 tractors. The 'Giddy-up-Whoa' jobs are rapidly receding into that limbo where went the 'Man With The Hoe', the 'long line skinner' and the itinerant harvest hand.

Perhaps our disemployed farm hands can all go down to the Sunny South and get jobs picking cotton? Surely this is a job that no machine will ever do—so we have been told. Can they? Echo answers, NO! Years of experimenting have been done on this tough problem and more than one successful machine has been built. On a California plantation (beg pardon, ranch), machine picking cost \$1.00 per 500 pound bale while hand picking cost \$32.00. Can labor compete with this machine under a Price System?

The International Harvester Co. is all set to start producing two-row and one-row cotton pickers as soon as war needs of critical metals are re-

laxed. Other companies are also set to produce cotton pickers as soon as priorities will permit. At the same time major changes are being made in cotton ginning. King Cotton's throne has long been shaky. It will fall completely when American armed might, created and backed by American technology, topples the thrones of the fascist states of Europe and Asia.

Tomorrow, Today Will Be Yesterday

Should our farm workers turn to the city they will find the same trend at work, the displacement of human labor by extraneous energy, long ago predicted as certain by Technocracy. *Successful Farming* stated that the Childs farm at Manchester, Iowa 'experienced a revolution-bloodless, but as significant futurewise as the contests of the liberals in Spain or the fateful march of the hitlerites into Poland.'

Correct, and it is but a start. Ralph Childs farmed 80 more acres last year with less labor. That's the only way it can be done. Power farming, high power farming, will bring about the consolidation of large tracts of land into one operational whole. Agrotechnological farms 25 miles square are perfectly feasible. There, close to the source materials, in an agrochemical city in the center of the area, the products of the soil will be processed into plastics, industrial alcohol, synthetic rubber and so on through the list of products our science and technology can create for America, when the yoke of price and profit have been removed.

The two displaced workers on the Childs farm are but two of millions

in the same boat. They have millions of brothers in the urban areas. If they will read through the factual analysis as given in the *Technocracy Study Course* they will see how science and technology have created a problem that is new under the sun, and which cannot be solved at a price for a profit. The extension of science into the social field will not only remove the problem but will make America a land of peace and abundance. All labor as well as the farm worker has no other salvation.

The first step in that direction is the

Total Conscription of all resources and manpower into a unified and efficient war effort. Total Conscription for war will provide the groundwork for the transition to peace without the crisis—a dangerous one—of many millions of unemployed, urban and rural, roving our land seeking food and shelter.

Total Conscription of Men, Machines, Materiel and Money With National Service From All and Profit to None is the only program that will prevent a nation of 'Okies' in the not so distant future.

More Of The Same

A case cited (in the Rural Electrification Administration annual report) is that of a farmer in Cherokee County, Georgia, who spent 6 hours a day pumping and carrying water for 4,800 chickens.

'With electric service he increased his flock to 15,000 chickens. His electric pump brings the water to them and he has nearly all his time free for other farm tasks.' . . .

'Electricity,' the report states, 'has in many areas helped break production bottlenecks, especially where the pinch was felt in the exodus of skilled dairy and general farm hands. . . .'

The reports also calls attention to the substantial increase in average farm consumption of electricity, which average increase was 14 kilowatt-hours from June, 1942, to June 1943. In heavy food-producing states the average increase per farm went as high as 26 kilowatt-hours in some cases.

Although large-scale construction was virtually halted in the summer of 1942 because of the shortage of materials, the number of consumers served by REA borrowers increased more than 60,000, or 6.17 per cent, during the year ended June 30, 1943.

The increase, raising to 1,041,000 the total number served, is primarily the result of farm connections, authorized by the War Production Board to stimulate greater food production.—U.S.D.A. Release.

'If America is to avoid unemployment and depression at the end of the war she must find some way of increasing production by \$50,000,000,000 over what it was in 1939. We have not the ghost of a blueprint to guide us.'—Leon Henderson. How about Total Conscription?

In The Question Box

BY EDUCATION DIVISION 8741-1

This department consists of actual questions asked and answered at Technocracy meetings, plus those sent in by readers.

DO you know of any other way of of living besides the system where the people pay parasites to force the people to obey the parasites. A.D.

Yes we do! But first let us clearly understand what we both mean by parasites. You mean the kind of parasite that lives off another body—people that live without effort off profits, people that live through useless occupations, and people that live by outright crime and deception. These are the social parasites and we will deal with them later in our answer, but first let us point out that in relationship to our consumption of energy all of us Americans are parasites on the raw materials, energy and technology of this Continent. This is not said in a derogatory manner. It is just a way of expressing the fact that none of us return to society an equivalent in the energy or materials we consume.

This is because we are a technological society and physical wealth on this Continent is not produced by our physical effort. Ninety eight percent of all energy used as power in industry today in America, is derived from sources outside the human body. The

role of human labor in production and transportation is supervisory, attendant, or accessory to the machine itself.

Technology and the conversion of energy for industrial use are an outgrowth of that body of knowledge called science. Scientific knowledge grew up slowly over a long period of time and was contributed to by countless known and unknown individuals. It can be said that science is common property. Today in America our social structure has reached a point of development where it is a fact that all of us are parasites on the past, are beneficiaries of natural wealth created in the past plus the advance of scientific knowledge.

This is not meant to condone the anti-social activities of those you call parasites. They will presently be liquidated along with the rest of us if all of us North Americans don't get our heads together and agree to adopt a scientific design for operating all social activities.

When we do that A.D. we will have 'another way of living' much better for all than our present system. And, such a design is all worked out.

Isn't Total Conscription exactly the same thing that Germany and Japan have? G. B.

No! It's exactly the opposite. Germany and Japan have conscription of

men and women alone for the benefit of wealth and privilege.

Total Conscription includes everybody. It means National Service From All and Profits to None. No individual or group is exempt. It's a case of all for one and one for all. All fascist countries have conscription of labor, but no fascist country has Total Conscription.

If as you say, America has the lion's share of all the World's natural resources, would it not make future wars impossible if we kept the present war going until the resources of all our enemies are completely gone? J.H.

You forget that as large as America's resources are they are not limitless. If we kept this war up long enough the United States would find itself impoverished. Even now the end of our known oil and high grade iron ore is in sight. We must *conserve* our non-replaceable resources. But of course business does not recognize this fact. The question is do we want good business or a quick victory.

Is there a possibility that the Russian system may drift into Technocracy? R. C.

Russia still has a Price System but it has installed a controlled area technology. All of Russia's accomplishments are due to this technology and not to the ideology of its communism. Scarcity still exists in Russia, but as and when the per capita conversion of energy in Russia reaches a certain level it will abolish scarc-

ity and Russia will have to adopt a Technocratic system. It will be easier for Russia to change over than for us, but they will not reach it for a number of years.

Will Technocracy when put into operation reduce the selfishness of the people? E. N.

It all depends on what you mean by selfishness. If you mean a normal amount of self interest which does not have an anti-social effect, then, no. If you mean hoggishness, then, yes. You can't blame people for trying to get ahead under the Price System. It means economic security. In a technological control the present driving type of incentive to escape economic insecurity wouldn't arise. Economic security from birth to death would be guaranteed to every citizen as a right of citizenship. The acquisitive instinct would then be diverted into more socially useful channels, such as the desire to excel. This is a powerful urge, but doesn't get you very far under the Price System. Also in a technological control individual initiative would for the first time be free to express itself since all citizens would be guaranteed equal opportunity to demonstrate their ability.

If the American people are driven to action by collective necessity what will they do and how do you know they will do that? G. A.

We don't know what the people will do. That's just the trouble. If we did know for sure it would either be useless to state the social and war problem, or unnecessary. If we knew they

were going to kick over the apple cart and commit mass hari-kiri there wouldn't be any sense in wasting our time. We'd be out looking for a safe spot. If we were sure they would adopt Total Conscription it would be unnecessary to talk about it. Technocracy is an educational movement, not an organization of prophets. There is a big job to do. Why not pitch in and help?

Just how do you figure that Total Conscription will guarantee the future of America? E.F.

By eliminating the threat of fascism from without and the danger of fascism from within. With the threat of fascism removed social change can then proceed in an orderly manner. This will enable us to cope with the

One day a doctor, an engineer and a politician were arguing which of their professions was the oldest. The doctor said: 'Mine is the oldest profession because the Bible records that Eve was created from one of Adam's ribs. That was a surgical operation.' 'You're behind the times,' said the engineer, 'my profession is much older. In the Book of Genesis it says that order was brought out of chaos. That was an engineering achievement.'

'Just a minute,' exclaimed the politician. 'I have the edge on both of you. The doctor may have performed the first operation and my

problems of the postwar period more effectually.

Price System methods failed to solve the problems of the long depression. Now we are waging total war with Price System methods. Victory will come in spite of their use and not because of them. It will come because of the sacrifices of our soldiers at the front and the efficiency of our technology at home. Then after the war we will come face to face with the perilous post-war period with nothing but Price System methods to lean upon. That sort of outlook is very dismal, indeed.

Total Conscription will dispense with Price System methods for the duration. That's how it will guarantee the future of America.

Note To Our Readers

Send in your questions we'll do our best to answer them.

friend, the engineer, may have brought order out of chaos. But who do you think created that chaos?'

Describing the results of bombing on modern industrial cities in this war an editorial in the *Chicago Daily News* for June 4, 1943 states '... this is a civilization dominated more by the second law of thermodynamics than by the arithmetical laws of interest.' For an explanation of this physical law consult *Technocracy Study Course Book*, pages 39 to 50, also Introduction to Technocracy page 5.

MONKEYS AIN'T SO DUMB!

Three monkeys sat in a cocoanut tree,
Discussing things as they're said to be;
Said one to the others, Now, listen, you two,
There's a certain rumor that can't be true
That man descended from our noble race.
The very idea. It's a bare disgrace.
No monkey ever deserted his wife,
And you've never known a mother monk
To leave the babies with others to bunk,
Or pass them from one to another,
Till they scarcely know who is their mother.
And another thing: You'll never see
A monk build a fence 'round a cocoanut
tree,
And let the cocoanuts go to waste,
Forbidding all others a taste.
Why, if I put a fence around this tree,
Starvation would force you to steal from
me!
Here's another thing a monk won't do:
Go out at night and get on a stew,
Or use a gun, or club, or knife,
To take some other monkey's life.
Yes, man descended, the ornery cuss,
But, brothers, he didn't descend from us.

—From *Desert Salute*

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'When everybody is working it is not hard to be a statesman.' Samuel Grafton, *Chicago Sun* 12/18/43.

'Whether in cities or on the land, the millions of restless unemployed Americans challenge us to do something constructive to meet the problem they represent. It is a problem that lies at the very root of all our world troubles. For we are in a world revolution. We are passing from our age-old era of scarcity to an era of abundance made available to us by our marvelous scientific achievements in the field of production. The conflict in the world today both within our nation and without, is man's struggle for mastery of his own machines. These unemployed people in the cities and on the land are crumbs of the machine—of modern large-scale production. They are what they are because our generation has not learned to live with abundance, and until mankind has learned how to do this, we shall have unemployment, distress, revolution, and WAR.'

R. M. Evans, U.S.,
Dept. of Agriculture,
Washington conference
in July, 1941.

Private business persisted in selling materials of war to Japan. First quarter of 1941, U. S. sent Japan 8,314,000 pounds of lead; 1,097,000 barrels of gasoline; also copper and machinery, in some cases tripling the exports of the same period in 1940. This was good business.

'It may be that in its widest sense, on its material side history is the story of mans increasing ability to control energy.' James Fairgrieve, in *Geography and World Power*, 1915.

TECHNOCRACY

WHAT?

WHERE?

WHEN?

WHO?

WHAT?

★ Technocracy is the only American social movement with an American program which has become widespread in America. It has no affiliation with any other organization, group or association either in America or elsewhere.

★ The basic unit of Technocracy is the chartered Section consisting of a minimum of 25 members and running up to several hundred.

★ It is not a commercial organization or a political party; it has no financial subsidy or endowment and has no debts. Technocracy is supported entirely by the dues and donations of its own members. The widespread membership activities of Technocracy are performed voluntarily; no royalties, commissions or bonuses are paid, and only a small full-time staff receives subsistence allowances. The annual dues are \$6.00 which are paid by the member to his local Section.

★ Members wear the chromium and vermillion insignia of Technocracy—the Monad, an ancient generic symbol signifying balance.

WHERE?

★ There are units and members of Technocracy in almost every State, and in addition there are members in Alaska, Hawaii, Panama, Puerto Rico and in numerous other places with the Armed Forces.

★ Members of Technocracy are glad to travel many miles to discuss Technocracy's Victory Program with any interested people and Continental Headquarters will be pleased to inform anyone of the location of the nearest Technocracy unit.

WHEN?

★ Technocracy originated in the winter of 1918-1919 when Howard Scott formed a group of scientists, engineers and economists that became known in 1920 as the Technical Alliance—a research organization. In 1930 the group was first known as Technocracy. In 1933 it was incorporated under the laws of the State of New York as a non-profit, non-political, non-sectarian membership organization. In 1934, Howard Scott, Director-in-Chief, made his first Continental lecture tour which laid the foundations of the present nation-wide membership organization. Since 1934 Technocracy has grown steadily without any spectacular spurts, revivals, collapses or rebirths. This is in spite of the fact that the press has generally 'held the lid' on Technocracy, until early in 1942 when it made the tremendous 'discovery' that Technocracy had been reborn suddenly full-fledged with all its members, headquarters, etc., in full swing!

WHO?

★ Technocracy was built in America by Americans. It is composed of American citizens of all walks of life. Technocracy's membership is a composite of all the occupations, economic levels, races and religions which make up this country. Membership is open only to American citizens. Aliens, Asiatics and politicians are not eligible. (By politicians is meant those holding elective political office or active office in any political party.)

★ Doctor, lawyer, storekeeper, farmer, mechanic, teacher, preacher or housewife—as long as you are a patriotic American—you are welcome in Technocracy.

**Great Lakes Technocrat,
306 W. Randolph Street,
Chicago 6, Illinois**

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8. Make the creation of further debt impossible
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